Chapter 10 - Automation Logs

Natural Log can convert its commercial log into a format usable by many automation systems. Several automation systems have their own file formats in which case Natural Log converts logs to the automation vendor's formats. Otherwise Natural Log uses the output file format described in the Generic Automation Text Log Format [see section 10.19.01].

Go to your automation type listed below and on the next page to determine if your automation system uses this Generic Text Format or another proprietary format. If you system is not listed, you can try to use the Generic format or send us specs on interfacing with your automation system and we will attempt to write an interface module for your specific system.

Also see Auto-Inserting Date / Time in Text & Automation Commands in Log templates in section 5.05 of this manual if your automation uses date or time-specific automation commands or audio cut names in your log templates.

Automation Systems Supported

❑ Arrakis Digilink™	See section 10.03
❑ Arrakis Digilink XTreme™	See section 10.40
❑ AudioVault AV-Air™	See section 10.07
❑ AuDisk™	See 'Generic' section 10.19
❑ Auto-Mate™ Systems	See section 10.05
❑ AXS™ 1/2/Digital DJ(tm)	See section 10.06
❑ BE-CORE / AudioVault™ Pipe-Delimited	See section 10.04
❑ BSI Simian™ or WaveStation™	See section 10.08
❑ Bsi OpX	See Section 10.49
❑ BTSG Automax™	See section 10.09
❑ BTSG Generation IV™	See section 10.10
❑ CartReady™	See 'WireReady' section 10.21
❑ CartWorks™	See section 10.11
❑ Classic Hollywood™ automation log output file	See section 10.35
❑ Computer Concepts DCS™	See section 10.12
❑ ControlReady™	See 'WireReady' section 10.21
❑ Dalet™	See section 10.43
❑ Deyan™	See section 10.48
❑ Digicenter™	See section 10.13
❑ Digital Broadcast Mediabank™	See section 10.46
❑ Digital JukeBox™ system	See section 10.14
❑ Digital Universe™ system	See section 10.15
❑ Dinesat™ system	See section 10.47
❑ Enco:DAD™ [Custom Filter]	See section 10.16
❑ Enco:DADPro32™ [ASCII Flat File]	See section 10.17
❑ EZ Broadcaster™ / EZ-2000™ Automation	See section 10.18
❑ Format Sentry	See section 10.12
❑ Harris ADC100™ Automation	See section 10.31
❑ Google Radio Automation ™	See section 10.28
❑ Generic Text automation log output file	See section 10.19
❑ JockeyPro™ automation	See section 10.34
❑ .m3u List	See section 10.20
❑ Maestro™	See section 10.12
❑ MasterPlay™	See section 10.39
❑ Matco™	See section 10.36
❑ MediaTouch™	See section 10.21
❑ MusicReady™	See 'WireReady' section 10.21

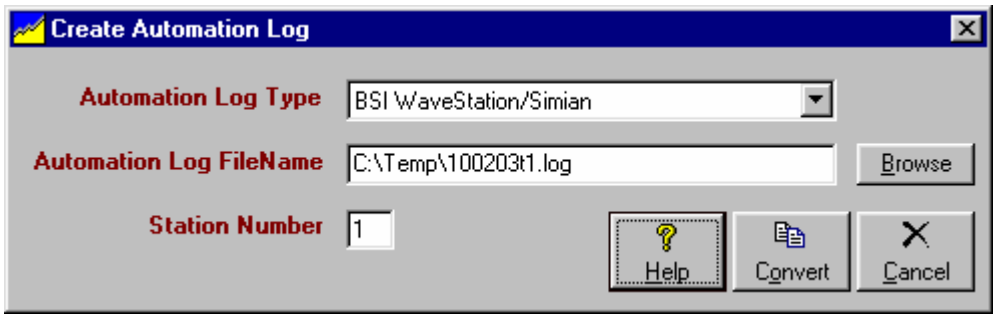
- ❑ NexGen™ — See section 10.23

Automation Systems Supported (cont)

- ❑ Pristine CDS32™ — See CartWorks section 10.11
- ❑ Pristine RapidFire™ — See 'Generic' section 10.19
- ❑ Prophet Systems™ — See section 10.23
- ❑ RadioOne™ — See section 10.32
- ❑ Raduga™ — See section 10.37
- ❑ RCS™ Log — See section 10.25
- ❑ RDS Phantom™ — See section 10.26
- ❑ Rivendell Automation™ — See section 10.41
- ❑ RushWorks MasterPlay™ — See section 10.39
- ❑ Salsa™ & Systemation™ — See section 10.27
- ❑ Scott Studios™ SS32/DSS/AXS3 systems — See section 10.28
- ❑ Smartcaster™ — See section 10.29
- ❑ Smarts Skylla™ — See section 10.29
- ❑ SoundBox™ — See section 10.35
- ❑ Spartamation Automation — See section 10.18
- ❑ Synergy™ — See section 10.38
- ❑ StationPlayList™ — See section 10.44
- ❑ TuneTracker™ — See section 10.30
- ❑ Waitt Radio Network™ STORQ — See section 10.32
- ❑ Wide Orbit Radio Automation ™ — See section 10.28
- ❑ WireReady™ — See section 10.21

10.01 Sending a Log to Automation

To send the commercial log to automation, the Natural Log system daily log must have been generated and edited, if necessary. The log is converted using the **[Convert-Log][Convert-Log] [Automation Log]** menu in the Log Editor to the proper format on a floppy disc or across a LAN to the automation system.

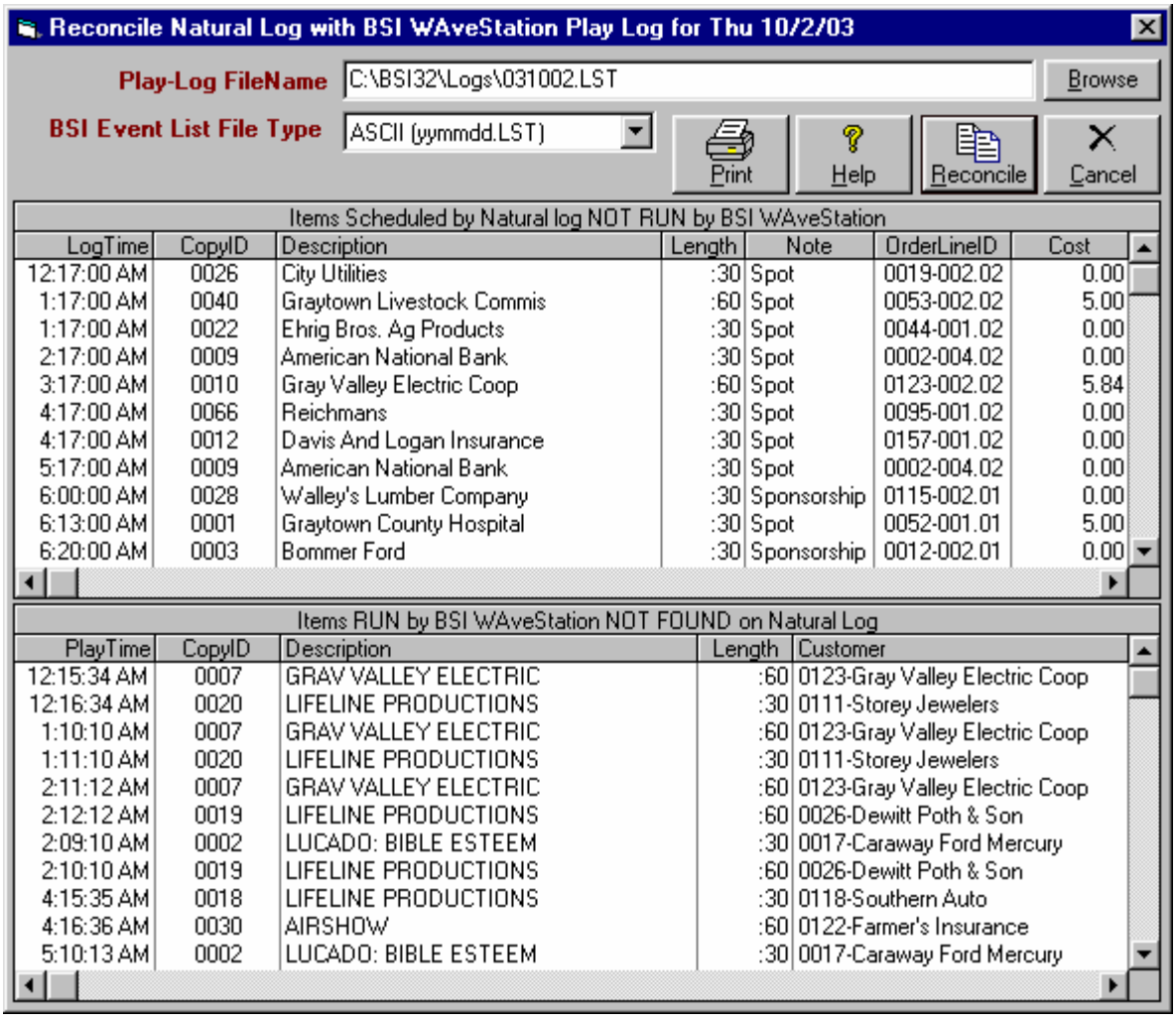


Note: There are some data values [such as Station Number above] that are required for certain automation systems. Also some restrictions apply to certain automation systems, so you must check the section of this manual that applies to your automation system before entering any orders into Natural Log.

10.02 Reconcile Scheduled Log with Automation Play-Log

NL8 can read exact Air Times from some [not all] automation play logs. If reconciled, these "Aired" times are shown on the Invoice/Affidavits. If not reconciled, the scheduled times are shown on the NL8 Invoice/Affidavits. This reconciliation is not supported for some automation systems. Please see the appropriate subsection of this chapter to determine if the system supports reconciliation from your automation system.

To reconcile a log, have it open in the NL8 Log Editor and use the **[Convert-Log][Reconcile Schedule-Log with Play-Log]** menu choice. You will need to point NL8 to the automation system's Play Log using the **[Browse]** button. See Automation Log Reconciliation

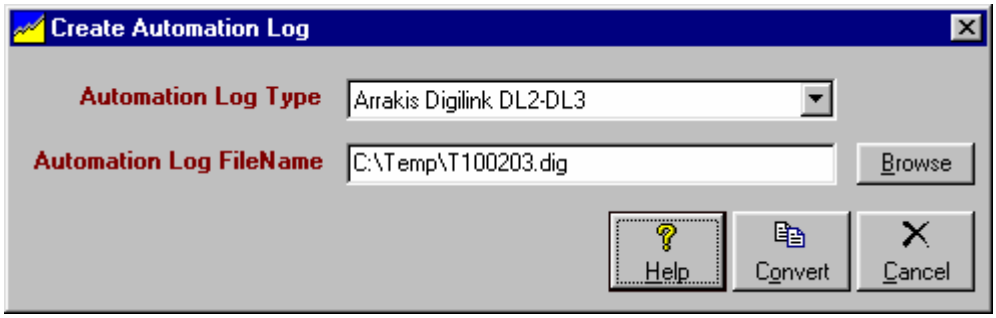

Reconcile Natural Log with BSI WAveStation Play Log for Thu 10/2/03
Play-Log FileName
C:\BSI32\Logs\031002.LST
Browse
BSI Event List File Type
ASCII (yymmdd.LST)
Print
Help
Reconcile
Cancel
Items Scheduled by Natural log NOT RUN by BSI WAveStation
LogTime | CopyID | Description | Length | Note | OrderLineID | Cost
12:17:00 AM | 0026 | City Utilities | :30 | Spot | 0019-002.02 | 0.00
1:17:00 AM | 0040 | Graytown Livestock Commis | :60 | Spot | 0053-002.02 | 5.00
1:17:00 AM | 0022 | Ehrig Bros. Ag Products | :30 | Spot | 0044-001.02 | 0.00
2:17:00 AM | 0009 | American National Bank | :30 | Spot | 0002-004.02 | 0.00
3:17:00 AM | 0010 | Gray Valley Electric Coop | :60 | Spot | 0123-002.02 | 5.84
4:17:00 AM | 0066 | Reichmans | :30 | Spot | 0095-001.02 | 0.00
4:17:00 AM | 0012 | Davis And Logan Insurance | :30 | Spot | 0157-001.02 | 0.00
5:17:00 AM | 0009 | American National Bank | :30 | Spot | 0002-004.02 | 0.00
6:00:00 AM | 0028 | Walley's Lumber Company | :30 | Sponsorship | 0115-002.01 | 0.00
6:13:00 AM | 0001 | Graytown County Hospital | :30 | Spot | 0052-001.01 | 5.00
6:20:00 AM | 0003 | Bommer Ford | :30 | Sponsorship | 0012-002.01 | 0.00
Items RUN by BSI WAveStation NOT FOUND on Natural Log
PlayTime | CopyID | Description | Length | Customer
12:15:34 AM | 0007 | GRAV VALLEY ELECTRIC | :60 | 0123-Gray Valley Electric Coop
12:16:34 AM | 0020 | LIFELINE PRODUCTIONS | :30 | 0111-Storey Jewelers
1:10:10 AM | 0007 | GRAV VALLEY ELECTRIC | :60 | 0123-Gray Valley Electric Coop
1:11:10 AM | 0020 | LIFELINE PRODUCTIONS | :30 | 0111-Storey Jewelers
2:11:12 AM | 0007 | GRAV VALLEY ELECTRIC | :60 | 0123-Gray Valley Electric Coop
2:12:12 AM | 0019 | LIFELINE PRODUCTIONS | :60 | 0026-Dewitt Poth & Son
2:09:10 AM | 0002 | LUCADO: BIBLE ESTEEM | :30 | 0017-Caraway Ford Mercury
2:10:10 AM | 0019 | LIFELINE PRODUCTIONS | :60 | 0026-Dewitt Poth & Son
4:15:35 AM | 0018 | LIFELINE PRODUCTIONS | :30 | 0118-Southern Auto
4:16:36 AM | 0030 | AIRSHOW | :60 | 0122-Farmer's Insurance
5:10:13 AM | 0002 | LUCADO: BIBLE ESTEEM | :30 | 0017-Caraway Ford Mercury

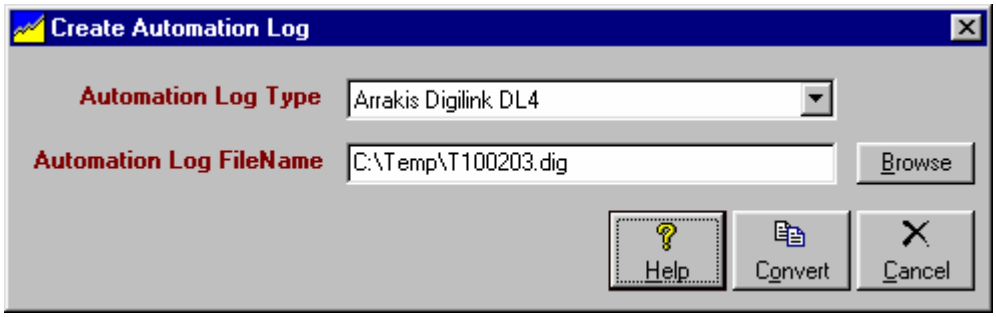
See section 6.04 of this manual for a complete description of this reconciliation process and what it does and does not do to your commercial logs.

10.03 Arrakis Digilink™ Automation

NL8 converts to the native Digilink log format so the 'Generic Text' output log format is not used for these automation system logs. Be sure to select the proper version of the Digilink you are using when creating the automation log in NL8.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.





Digilink Cart Numbers

Digilink can use any numeric or alphanumeric cut up to 8 characters to identify its audio cuts. NL8 can handle any valid Diglink audio cut identifier so all you need to do is enter the Digilink cut identifier for the particular commercial spot into the "CopyID" field on the NL8 Order Line entry screen.

Log Reconciliation is supported for Digilink

Copy the Play Log onto a floppy disc or to a folder on your LAN, and use the **[Convert-Log] [Reconcile Schedule-Log with Play-Log]** function in the **Log Editor** section of Natural Log, with the day's log loaded into the NL8 Log Editor. You will need to use the [Browse] button to point NL8 to the Play-Log. Natural Log will read the run times and print a discrepancy report.

Output & Input Log FileNames

Output (send) log file

Tmmddyr.DIG	mm is month, dd is day, yr is year
T110295.DIG	is Send Log for 11-02-95

Input (reconcile) Play log file

LmmddyrA.DIG	mm is month, dd is day, yr is year
L110295A.DIG	is Play Log for 11-02-95

10.03 Arrakis Digilink™ Automation (cont)

Digilink Commands

Commands can be sent to the Digilink (such as source switching) from the Natural Log templates. You can also pre-schedule non-commercial audio cuts to be played directly from the NL8 log template. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**. On the Natural Log Template simply enter **&** and then the command code letter/numbers in the Event description. NL8 will pick up the command or cut name to play by capturing all characters between **&** and the first space in the event description. You may also enter more than one command per line, just enter a space between each command, and start each command with **&**.

Digilink Command Example - Event 0101 shown below

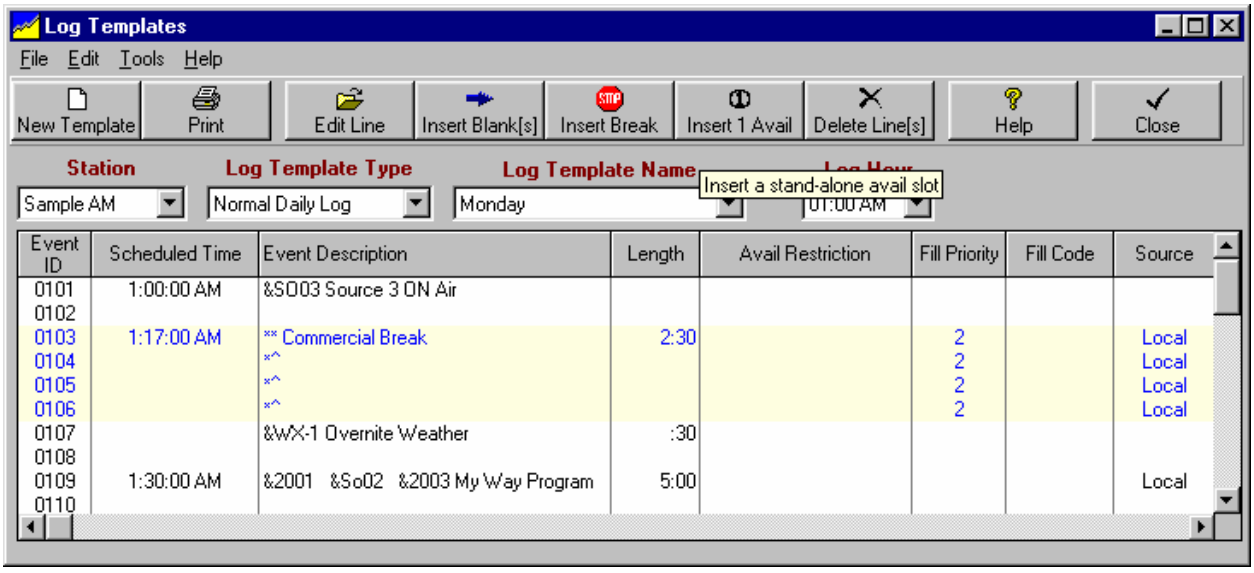
The command to switch to source 3 may be code "So3" in the Digilink. You would enter this as **&So3** in the event description column in the NL8 Log Templates. This will work with any of the Digilink commands, just use the **&** when entering the event description on the Natural Log Template. In this example, we included `Source3 ON' only to make it readable to humans. Digilink only needs **&So3**.

Digilink Play Cut Example - Event 0107 shown below

Assume you may need to run the non-commercial weather audio named WX-1 at certain times each day as part of a 3:00 commercial break. The entry starting at 0103 through 0106 would play 2:30 of commercials followed by the weather on event 0107. Note that the length of the commercial break listed was reduced by the length of the weather. Once again, DigiLink only needs the **&WX-1** and we inserted "Overnight Weather"only to make it easier to read for humans. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

Digilink Command Sequence Example - Event 0109 shown below

You may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 2001), then switch to Source 2, then play a closer (cut 2002). You could enter each item on a separate line, or you could make the following entry in the Natural Log Templates.

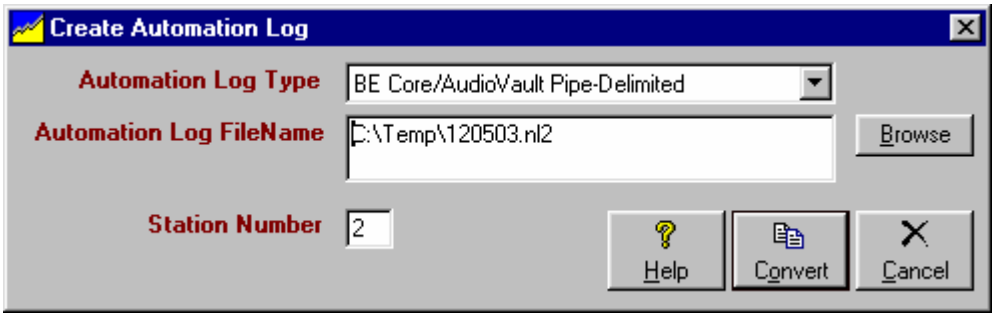


10.04 BE-CORE/AudioVault™ Automation

NL8 converts to a "native" BE-CORE [early version of AudioVault] log format so the 'Generic Text' output log format is not used for these automation system logs. Any references in this section of this manual referring to AudioVault refer to the earlier BE-CORE/AudioVault not the current AudioVault AV-Air.

Users of AudioVault AV-Air MUST use the AudioVault AV-Air output log format as described in section 10.07 of this manual.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



BE-CORE/AudioVault Cut Numbers

BE-CORE/AudioVault can use any numeric or alphanumeric cut up to 8 characters to identify its audio cuts. NL8 can handle any valid AudioVault audio cut identifier so all you need to do is enter the AudioVault cut identifier for the particular commercial spot into the "CopyID" field on the NL8 Order Line entry screen.

Log Reconciliation is supported For BE-CORE/AudioVault

Copy the Play Log onto a floppy disc or to a folder on your LAN, and use the **[Convert-Log] [Reconcile Schedule-Log with Play-Log]** function in the **Log Editor** section of Natural Log, with the day's log loaded into the NL8 Log Editor. You will need to use the [Browse] button to point NL8 to the Play-Log. Natural Log will read the run times and print a discrepancy report.

Output & Input Log FileNames

Output (send) log filename

mmddyr.NL#	mm=month##, dd=day, yr=year, station#
110295.NL1	Send Log for 11-02-95 station # 1

Input (reconcile log filename

mmmdd#.LOG	mmm is 3-letter month, dd is day, station#
NOV021.LOG	Read Log for 11-02-95 station #1

10.04 BE-CORE/AudioVault™ Automation

Specifying AV-SAT StartCodes for Commercials

Normally NL8 will sent the "Start Command" for commercial events [not commands] as blank [manual or closure start] for the first commercial event at a given log time, then + [autostart segue] for all events that occur at exactly the same log time as the first event. This can be overridden to force first-in-break events and events that occur at different times to also have the + start code by placing the following text as a line by itself in the NL8 log template:

&[AutoStart] ON All following events are sent with + [segue] start-code until NL8 sees an [AutoStart] OFF entry. If you want AutoStart + sent for all commercial items in the entire log, just put this command as the first event in each NL8 log template.

&[AutoStart] OFF All events sent as described above [this is the default setting].

NOTE: Commands in which you specify a particular start code [in the second column as described below] will always carry the command's start code entry regardless of the [AutoStart] setting in effect.

Play non-commercial cuts from NL8 Log Templates

You can also use the **&** to play an audio cut from the Log Template. Just enter & followed immediately (no spaces) by the audio cut name or number as the event description in the Natural Log Templates. This is useful for scheduling weather, jingles, ID's, etc. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

AudioVault Commands

AudioVault accepts certain commands such as "load the next day's log". (See the AudioVault manual). These can be entered on your Natural Log Templates as command lines of text. Natural Log will treat these as command lines if you begin the event description with **&|@|X|** followed immediately by the command name.

Explanation of second column codes:

```
    ↓
&|@|X|
```

@ means time triggered

```
&|+|X|
```

\+ means triggered at the end of the prior event

```
&|  |X|
```

the blank between the lines means triggered from your network or automation system

Explanation of 3rd column codes:

```
      ↓
&|@|X|
```

X means an AudioVault Command follows on this line

```
&|@|L|
```

L means an announcer stack Load follows on this line

```
&|@|J|
```

J means Jump to a new playlist follows on this line

```
&|@|:|
```

: means an Audiovault label follows on this line

```
&|@|'|
```

' indicates a COMMENT line

The actual command would immediately follow the last | in the log format event description in Natural Log. See your AudioVault manual for explanations of these commands and codes.

Continued on next page

Aligning BE-CORE/AudioVault for Satellite Network Contact Closures

When using a satellite network which sends contact closures, you need to be sure that AudioVault stays "aligned" with the satellite service so that it is at the proper point in the log when the next contact closure occurs even if the break to be triggered is empty. In the example below, the station is running a satellite service so they are concerned with proper alignment with contact closures. There are 2 commands required on the Natural Log Templates:

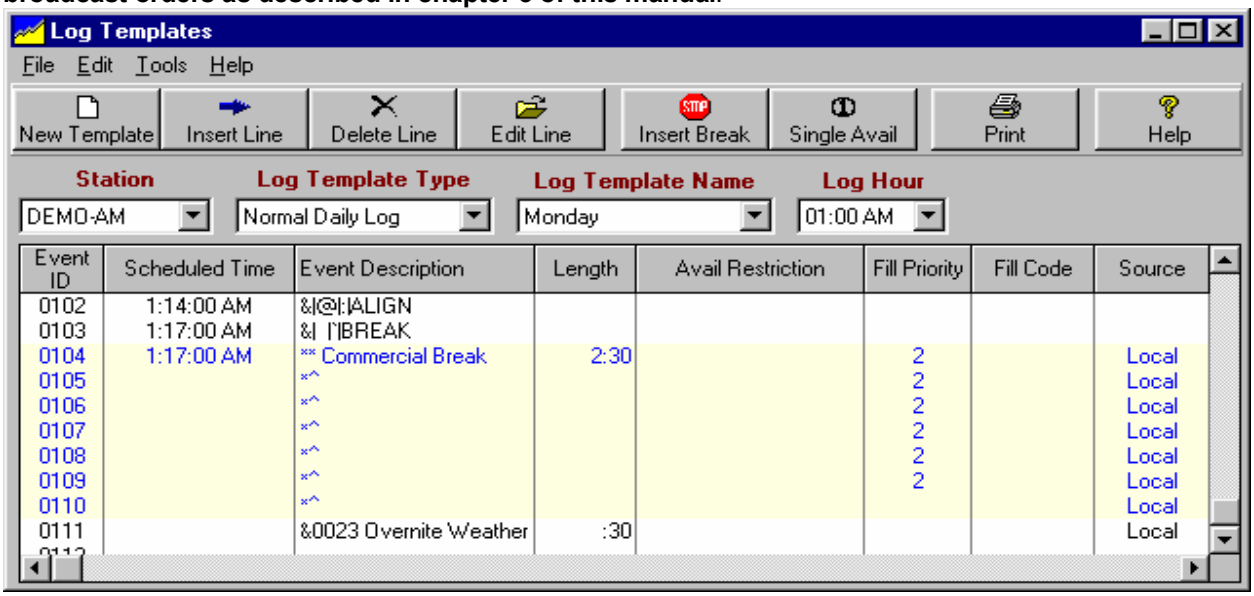
- **`&|@|:|ALIGN`** The **@** tells AudioVault that this is a timed event to be executed at at the specified time (1018 in this example). The time you enter must be before the earliest time the contact closure may occur. The **:** tells AudioVault that this is a line label. **ALIGN** tells AudioVault to move to this line at the time specified and wait for the next contact closure, which will come about 1021, but may float. When it receives the contact closure, AudioVault will play the following spots (if any) and return to satellite.
- **`&| |`|BREAK`** The | | tells the system that this is a "Satellite Start" event and must be blank. The |`| tells AudioVault that this is a "Comment Line". **BREAK** is just a text description. This comment line serves to STOP the AudioVault ONLY if there are no commercials in the spotset which follows it. The time on this event MUST be the same as the start time of the stopset. This event is required for all commercial breaks as a safety device to prevent AudioVault from getting out of sequence with the Network. If no spots follow this event, Audiovault stays on satellite.

Example Aligning AudioVault with Satellite Contact Closures - Event 0101 shown below.

Assume you may need to be sure the AudioVault is aligned to the correct when it receives the contact closure to play that break. Event 0101 shows how this could be entered. Note that the time as several minutes before the break is expected to be triggered.

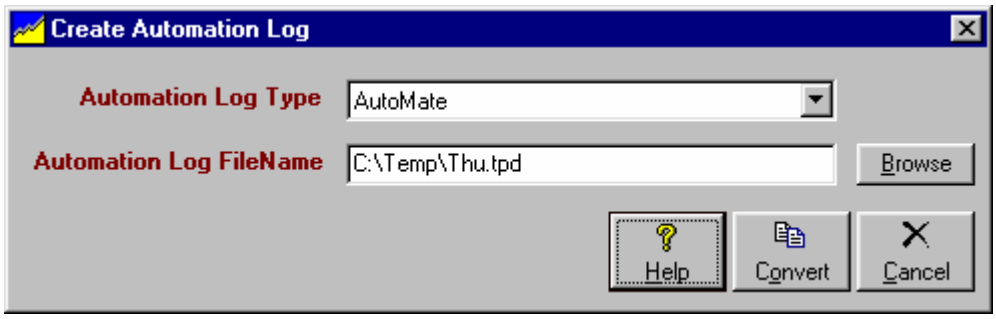
Example Play a non-commercial Audio Cut - Event 0105 shown below.

Assume you may need to run the non-commercial weather audio named 0023 at certain times each day as part of a 3:00 commercial break. The entry starting at 0101 through 0105 would play 2:30 of commercials followed by the weather. Note that the length of the commercial break listed was reduced by the length of the weather. Once again, AudioVault only needs the **&0023** and we inserted "Overnight Weather"only to make it easier to read for humans. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.



10.05 Auto-Mate™ Automation

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log]** **[Automation Log]** to create the Automation Log.



Auto-Mate Cut Numbers

The Auto-Mate system can use any cut numbers from S0001 to S9999. All you need to do is enter the cut number for the particular commercial spot into the "CopyID" field (on the NL8 Order Line entry screen), in the Natural Log system when entering the orders. Make sure the number in NL8 matches the number in the Auto-Mate System including the S.

Log Reconciliation is supported for Auto-Mate

Copy the Auto-Mate play log file for the selected single date onto a floppy disc or to a folder on your LAN, and use the **[Convert-Log]** **[Reconcile Schedule-Log with Play-Log]** function in the **Log Editor** section of Natural Log, with the day's log loaded into the NL8 Log Editor. You will need to use the [Browse] button to point NL8 to the Play-Log. Natural Log will read the run times and print a discrepancy report.

Output & Input Log FileNames

Output (send) log file

day.TPR	where day is Mon / Tue / etc.
MON.TPR	is Send Log for Monday

Input (reconcile) log file

day.LOG	where day is Mon / Tue / etc.
MON.LOG	is Play Log for Monday

Auto-Mate Break Markers

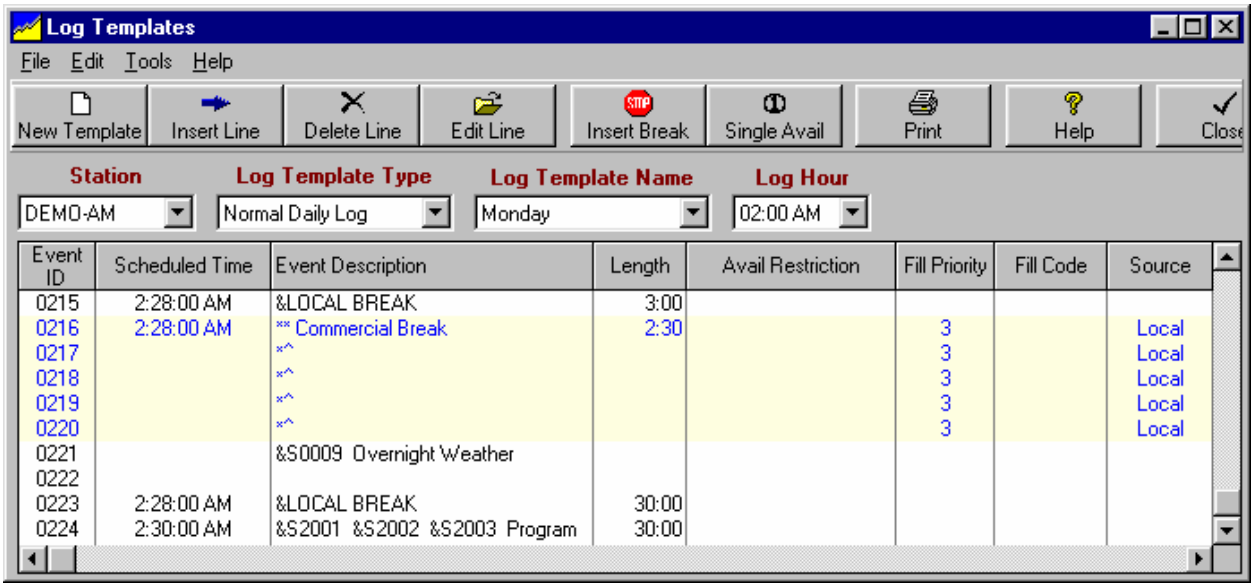
Each and every **Local Break** contact closure received from the Satellite network must be marked in Auto-Mate's play log, even if the break is empty, so that the Satellite network and Auto-Mate stay "in-sync". Each time a Local Commercial Break contact closure is received from the satellite network, Auto-Mate goes to the next "Local Break" marker in its play log, and plays the spots which follow the break marker, if any. If no spots are listed, the Auto-Mate immediately returns to satellite. These **Local Break Markers** are entered on the Natural Log Template as shown in the example below. Note that these must be entered in the NL8 Log Templates Event Description column as:

&LOCAL BREAK

There must be a space between &LOCAL and BREAK. See example on next page.

Break Marker Example

The "Local Break Marker" must appear immediately before any spot avails. It is necessary for all local breaks, both mandatory and optional (**I**f-Used FillCode in Natural Log). This marker consists of a line immediately before the spot avails, with the same time as the avails, and an event description which must appear exactly as shown on event 0215 below (the **&** is a Natural Log command marker and is required).



Event ID	Scheduled Time	Event Description	Length	Avail Restriction	Fill Priority	Fill Code	Source
0215	2:28:00 AM	&LOCAL BREAK	3:00				
0216	2:28:00 AM	** Commercial Break	2:30		3		Local
0217		*^			3		Local
0218		*^			3		Local
0219		*^			3		Local
0220		*^			3		Local
0221		&S0009 Overnight Weather					
0222							
0223	2:28:00 AM	&LOCAL BREAK	30:00				
0224	2:30:00 AM	&S2001 &S2002 &S2003 Program	30:00				

Auto-Mate Commands

Commands can be sent to the Auto-Mate from the Natural Log templates. You can also pre-schedule non-commercial audio cuts to be played directly from the NL8 log template. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.On the Natural Log Template simply enter **&** and then the command code letter/numbers in the Event description. NL8 will pick up the command or cut name to play by capturing all characters between **&** and the first space in the event description. You may also enter more than one command per line, just enter a space between each command, and start each command with **&**.

Play a Non-Commercial Audio Cut Example - Event 0221 shown above

Assume you may need to run weather at a certain time each day. If your weather is named **S0009**, you could make the entry shown at event 0221 Natural Log Templates. This would play 2:30 of commercials followed by the weather. Note that the length of the commercial break was reduced by the length of the weather. Once again, the computer only needs the **S0009** and we inserted "Overnight Weather"only to make it easier to read for humans. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

Command Sequence Example - Event 0224 shown above

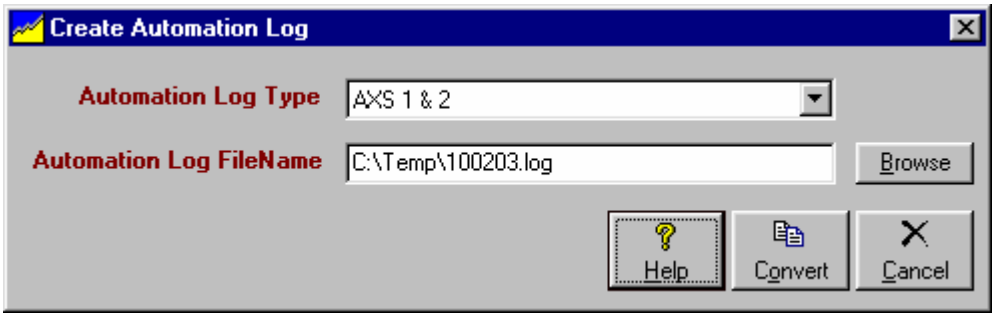
You may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 2001), then play a program (cut 2002), then play a closer (cut 2003). You could enter each item on a separate line, or you could make the entry shown at event 0224 above in the Natural Log Templates. Note that a single space is inserted between each command or cut and 'Program' is an optional description.

10.06 AXS 1/2 and Digital-DJ Automation

NOTICE: This section applies only to AXS version 1 and 2. Scott Studios new AXS 3 system uses the regular Scott Studios interface covered in section 10.28.

AXS systems version 1 and 2 and the older Digital DJ systems use log file formats which are **NOT** 100% compatible with each other. We have therefore included separate conversion systems for the older Digital DJ and for the AXS 1/2 systems. NL8 converts to the native AXS and Digital DJ log formats so the 'Generic Text' output log format is not used for these automation system logs.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



AXS / Digital DJ Cut Numbers

The AXS system uses audio cut numbers from 2000 to 9999, plus cuts 1 to 1999 reserved for commands and rotators. The Digital DJ system uses audio cut numbers 1000 to 2999, plus cuts 1 to 999 reserved for commands and rotators. NL8 accepts any cart (cut) number from 1 to 9999 so NL8 can be used to send rotator or command information to the AXS or Digital DJ. Enter the cut number into the NL8 "CopyID" field during order entry.

Log Reconciliation is supported for AXS / Digital DJ

Copy the Audit Log onto a floppy disc or to a folder on your LAN, and use the **[Convert-Log] [Reconcile Schedule-Log with Play-Log]** function in the **Log Editor** section of Natural Log, with the day's log loaded into the NL8 Log Editor. You will need to use the **[Browse]** button to point NL8 to the Play-Log. Natural Log will read the run times and print a discrepancy report.

Output & Input Log FileNames

Output (send) log file:

mmddyr.LOG mm is month, dd is day, yr is year
110295.LOG is Send Log for 11-02-95

Input (reconcile) Audit Log file:

mmddyr.ALG mm is month, dd is day, yr is year
110295.ALG is Audit Log for 11-02-95

AXS / Digital DJ Commands & Cluster Markers

Cut numbers 1 to 999 are reserved by the Digital DJ for commands. Cuts 1 to 1999 are reserved by AXS for commands. These commands CAN be automatically sent to the Digital DJ or AXS from the Natural Log system. On the Natural Log Template, simply enter **&** and then the 4-digit command or audio cut number in the Event Description column.

Cluster Marker Example - Event 0301 shown below

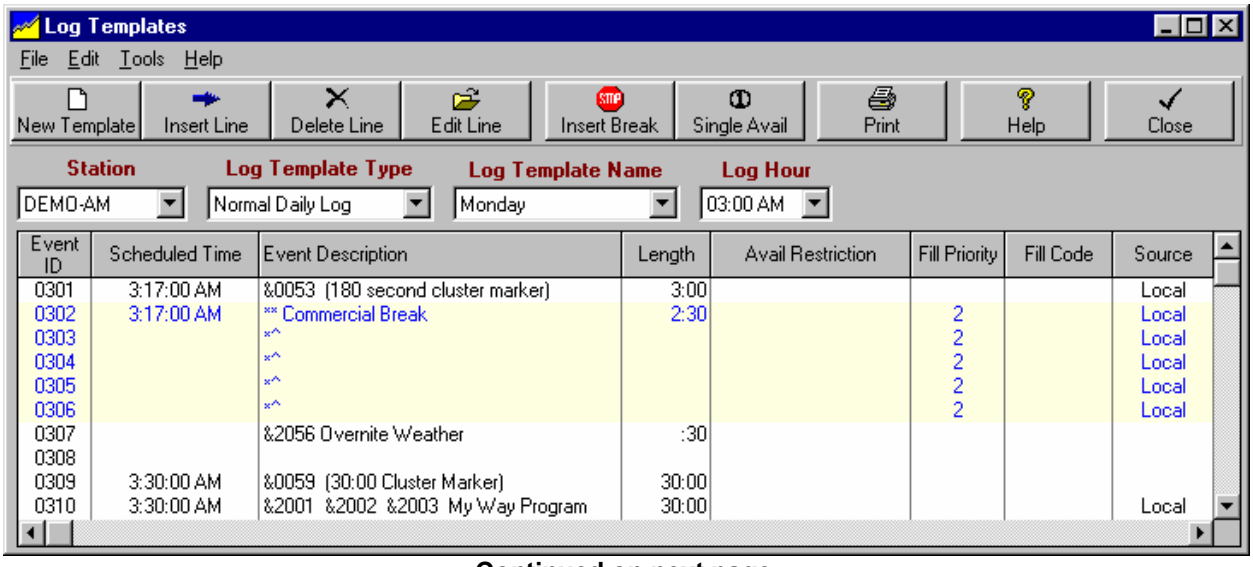
Assume AXS cut number 0053 is a "Cluster Marker" for a 180 second spot set. (You define these in Digital DJ or AXS system). The Digital DJ or AXS system must see a **Cluster Marker** command immediately before any spots so it knows how long the spot set is supposed to be. On the Natural Log Templates, you'd enter an event descriptiond &0053 at the time the spot set is supposed to start, in this case 3:17:00 AM. Then on the next line of the Natural Log Template, you enter the avails for the commercial break. This will work with any of the Digital DJ or AXS commands. Just use the **&** when entering the event description on the Natural Log Template. The `**(180 second cluster marker)**' is solely to make it easy to read for humans. It is not needed for AXS which only needs the **&0053**.

Tell AXS to play a non-commercial audio cut Example - Event 0307 shown below

Assume AXS cut number 2056 is your overnight weather. You can tell AXS to play this cut at the end of the commercial break (or anywhere you want it to play). **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**. Note: The Commercial Break length was reduced to 2:30 to account for the 30 seconds of weather which AXS does count as part of the cluster but NL8 does not count as part of the commercial break.

Command Sequence Example - Event 0310 shown below

You may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 2001), then play a program (cut 2002), then play a closer (cut 2003). To save space you can optionally enter all these on 1 line of the NL8 log template. Note that a single space is inserted between each command or cut and 'My Way Program' is an optional description.



Event ID	Scheduled Time	Event Description	Length	Avail Restriction	Fill Priority	Fill Code	Source
0301	3:17:00 AM	&0053 (180 second cluster marker)	3:00				Local
0302	3:17:00 AM	** Commercial Break	2:30		2		Local
0303		*^			2		Local
0304		*^			2		Local
0305		*^			2		Local
0306		*^			2		Local
0307		&2056 Overnite Weather	:30				
0308							
0309	3:30:00 AM	&0059 (30:00 Cluster Marker)	30:00				
0310	3:30:00 AM	&2001 &2002 &2003 My Way Program	30:00				Local

Continued on next page.

10.06 AXS 1/2 & Digital-DJ Automation
(cont)

AXS Systems 'End-of-Break'

The older Digital DJ system used "segmarkers" and blank lines (Digital DJ/AXS code **0011**) to determine whether to stop after playing a spot on the log. For example, at the end of a commercial break, Natural Log normally sends the Digital DJ a code **0011 blank line** to tell the Digital DJ that the commercial break is over. At that point, the DJ stops playing spots and returns to satellite. With the AXS system, this is still the standard case, with Natural Log sending code **0011** at the end of each commercial break. But if you do not want AXS to stop and return to satellite, Natural Log must send code **0030** instead.

You'd an AXS/Digital DJ command (as described on the previous page) and enter **&0030** as the event description on the Natural Log Template on the line immediately after the end of the spot break, and the Natural Log would send **0030** instead of the normal **0011**. This will cause the AXS system to continue to the next event, instead of stopping. This is useful during periods of total automation (without satellite).

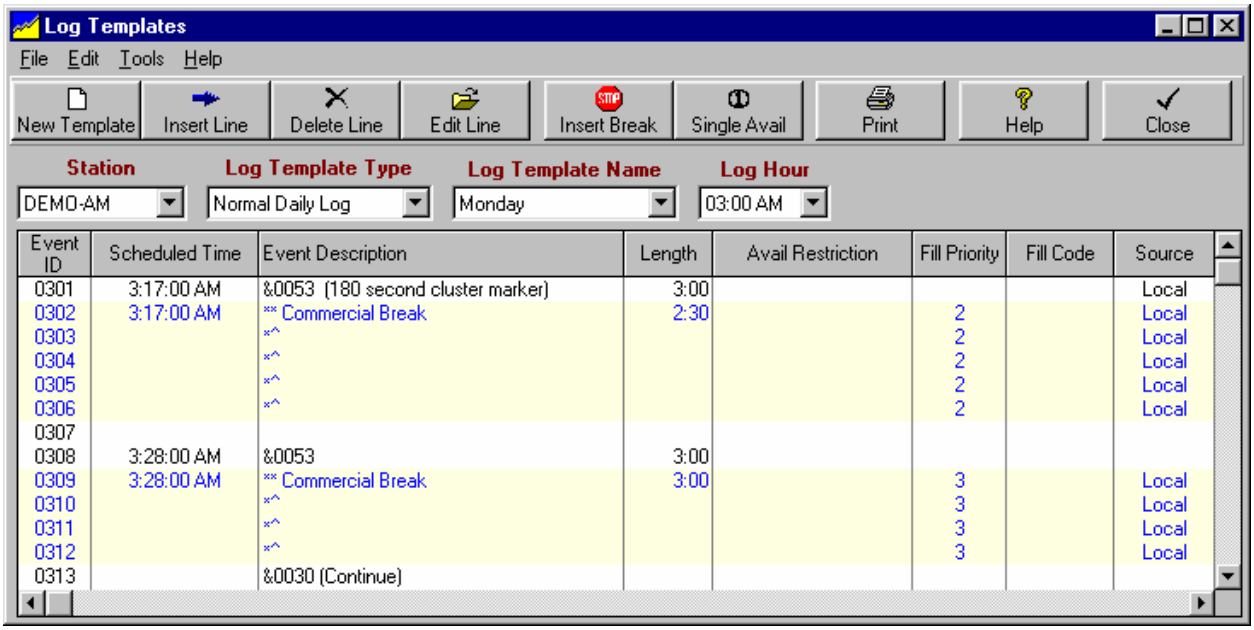
Remember, code **0011** is automatically sent at the end of each break, **unless** you tell Natural Log to send code **0030**. Code **0011** tells AXS to stop playing spots and return to satellite. Code **0030** tells AXS to continue to the next event.

0011 End-of-Break Example - Events 0301 through 0306 shown below

Standard entry in the Natural Log Template which sends **0011** at end of break to **Stop** play and **Return to Satellite.** Note that no code is entered so NL8 assumes you want 0011.

0030 End-of-Break Example - Event 0313 shown below

Entry in the Natural Log Template which sends **0030** at end of break to **Continue** to next event. The next event may be music, other spots, etc.



AXS Systems 'Mode' Commands

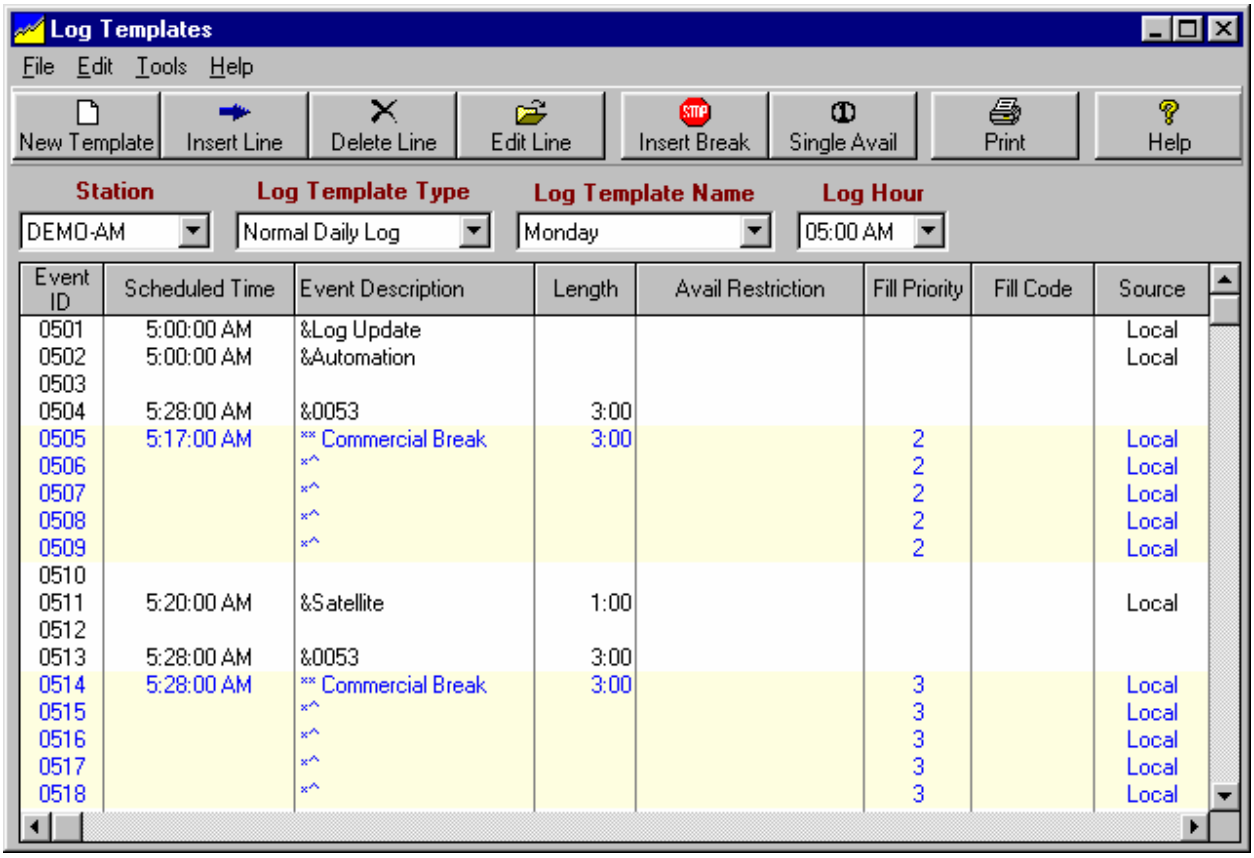
Instead of sending explicit end-of-break markers as described on the previous page, there are several commands you can enter in the NL8 log template to automatically control what NL8 does regarding the End-of-Break markers.

- **&Automated** - This causes NL8 to not send code **0011** blank lines at the end of each break until a different mode is encountered on the NL8 log. See example event 0503 below. This mode will be in effect until NL8 sees another mode command.

- **&LiveAssist** - This causes NL8 to not send code **0011** blank lines at the end of each break until a different mode is encountered on the NL8 log.

- **&Satellite -** Code 0011 blank line to Return-to-Satellite is sent after each break. See example event 0514 below. This mode will be in effect until NL8 sees another mode command.

- **&Log Update** - This causes AXS to skip any unplayed events and move to the next event at this time. See example event 0501 below. This mode will be in effect until NL8 sees another mode command.

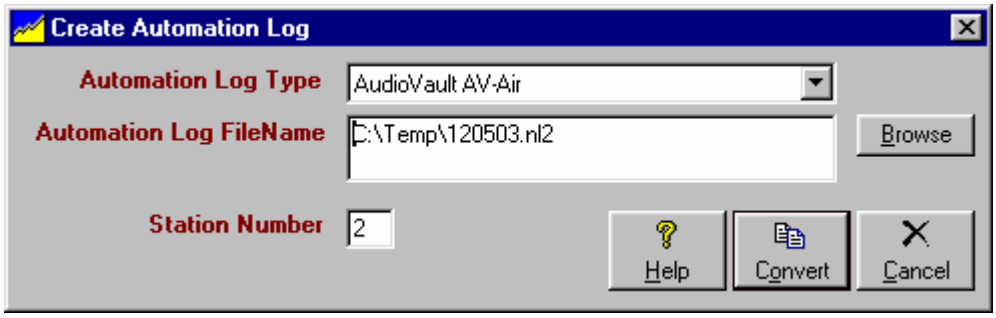


Event ID	Scheduled Time	Event Description	Length	Avail Restriction	Fill Priority	Fill Code	Source
0501	5:00:00 AM	&Log Update					Local
0502	5:00:00 AM	&Automation					Local
0503							
0504	5:28:00 AM	&0053	3:00				
0505	5:17:00 AM	** Commercial Break	3:00		2		Local
0506		*^			2		Local
0507		*^			2		Local
0508		*^			2		Local
0509		*^			2		Local
0510							
0511	5:20:00 AM	&Satellite	1:00				Local
0512							
0513	5:28:00 AM	&0053	3:00				
0514	5:28:00 AM	** Commercial Break	3:00		3		Local
0515		*^			3		Local
0516		*^			3		Local
0517		*^			3		Local
0518		*^			3		Local

10.07 AudioVault™ AV-Air Automation

NOTE: Users of early versions of AudioVault [such as BE-CORE and AV-Satellite] who need the AudiuoVault "native" pipe-delimited log must use the BE-CORE/AudioVault Pipe-Delimited output log described in section 10.04 of this manual.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



Warning Regarding Avails in AudioVault AV-Air

This warning does not apply to recent versions of AV-Scheduler/ AV-Air which load fine without empty avail markers when you select NL8's standard **AV-Air** automation type. Some early versions of AV-Air's AV-Scheduler commercial loading systems don't use the scheduled spot times to load the spots. They are sequential loaders, that is, the first spot is loaded into the first avail you have in the AudioVault AV-Air system, the 2nd spot goes into the 2nd avail, and so on. As you can see, it is vitally important that the avails you have set up in Natural Log Templates match EXACTLY the avails you have in AudioVault AV-Air.

How Natural Log Complies

To comply with this "empty avail" requirement NL8 has a separate automation type **[AV-Air w/avails]**, which when selected, causes NL8 to send either a valid spot number (**####**) or a blank avail marker (**0000**) to AudioVault AV-Air for each avail slot you have set up on the Natural Log Template. A Natural Log avail slot is designated by * at the left column of the event description on the Natural Log Template. Natural Log will also send a spot number for any use of **&####** on the Natural Log Template (see AudioVault AV-Air Commands below), so these need to be counted as avails and must be provided an avail slot in AudioVault AV-Air. If the number if the scheduled SPOTS plus UNUSED AVAILS on a log doesn't match the number of avail slots in AudioVault AV-Air, the spots and blank avails will load into AudioVault AV-Air in sequence, but may NOT run at the scheduled time.

When you get ready to convert a finished log from the Natural Log editor for loading into AV-Air, the number of lines containing **spots** (####) plus the number of lines containing **avail markers** (&0000) plus the number of **command lines** (&####) MUST equal the number of avail slots in AV-Air.

Avails Example for AudioVault AV-Air

Assume you have 10 avails in Natural Log in the 12 Midnight hour, but AudioVault AV-Air only has 8 avails in that hour. The first 8 spots and/or unused avail slots scheduled by Natural Log in the 12 Midnight hour will load OK, but the next 2 scheduled by Natural Log for the 12 Midnight hour will load into the 1AM hour on AudioVault AV-Air. Your entire broadcast day will be off. When viewing a completed Natural Log in the Natural Log editor, you will note all unused Natural Log avail slots (* in the Natural Log Template) are converted to **&0000 AVAIL** which is the "Unused Avail" marker for AudioVault AV-Air. These lines are sent to AudioVault AV-Air as cut **0000**.

10.07 AudioVault™ AV-Air Automation (cont)

Configure the AudioVault AV-Air Traffic Loader Interface

The AudioVault AV-Air system interface (in the AudioVault computer) must be configured to read the Natural Log data in the following format (ASCII file with Carriage Return / Line Feed at the end of each line):

Note: Originally the AV-Air interface was designed to handle only 8-charcater CopyID's. In NL8 Windows copyID's can be up to 20 characters while AV-Air can handle up to 13 characters. Nl8 log export types:

AV-Air [Older DOS version handles up to 8 characters in CopyID]

COLUMN	LENGTH	FIELD IDENTIFICATION
1	3	Scheduled Hour (##:)
4	3	Scheduled Minute (##:)
7	2	Scheduled Second (##)
10	8	Cut number (filename to play, left justified)
20	24	Event description (sponsor name,etc)
45	4	Length in SECONDS (zero left padded)
50	24	Reserved
75	4	Natural Log event pointer for reconciliation
79	2	Carriage Return / Line Feed

AV-Air [Extended CopyID's] Newer format for full 13 -character CopyID's

COLUMN	LENGTH	FIELD IDENTIFICATION
1	3	Scheduled Hour (##:)
4	3	Scheduled Minute (##:)
7	2	Scheduled Second (##)
10	13	Cut number (filename to be played, left justified)
32	24	Event description (sponsor name,etc)
57	4	Length in seconds(#### left padded with zeroes)
62	8	Played Time hh:mm:ss [not used by NL8]
71	16	Reserved
87	4	Natural Log event number
91	2	Carriage Return / Line Feed

AudioVault AV-Air Cut Numbers

The AV-Air system can use any cart numbers from 1 to 13 characters [or 1 to 8 characters if using original NL8 AV-Air interface]. All you need to do is enter the AV-Air cut number for the particular commercial spot into the "CopyID" field in the Natural Log system when entering the order lines. Make sure the number in NL8 matches the exactly number in the AudioVault AV-Air system.

Log Reconciliation is supported for AudioVault AV-Air

Copy the Aired Log onto a floppy disc or to a folder on your LAN, and use the **[Convert-Log] [Reconcile Schedule-Log with Play-Log]** function in the **Log Editor** section of Natural Log, with the day's log loaded into the NL8 Log Editor. You will need to use the **[Browse]** button to point NL8 to the Play-Log. Natural Log will read the run times and print a discrepancy report.

Output & Input Log FileNames

Output (send) log file

mmddyr.NL#	mm is month, dd is day, yr is year
110295.NL1	Send Log for 11-02-95 station # 1

Input (reconcile) log file

mmddyr.ltx	mm is month, dd is day, yr is year
110295.ltx	Aired log for 11-02-95

10.07 AudioVault™ AV-Air Automation (cont)

AudioVault AV-Air Commands

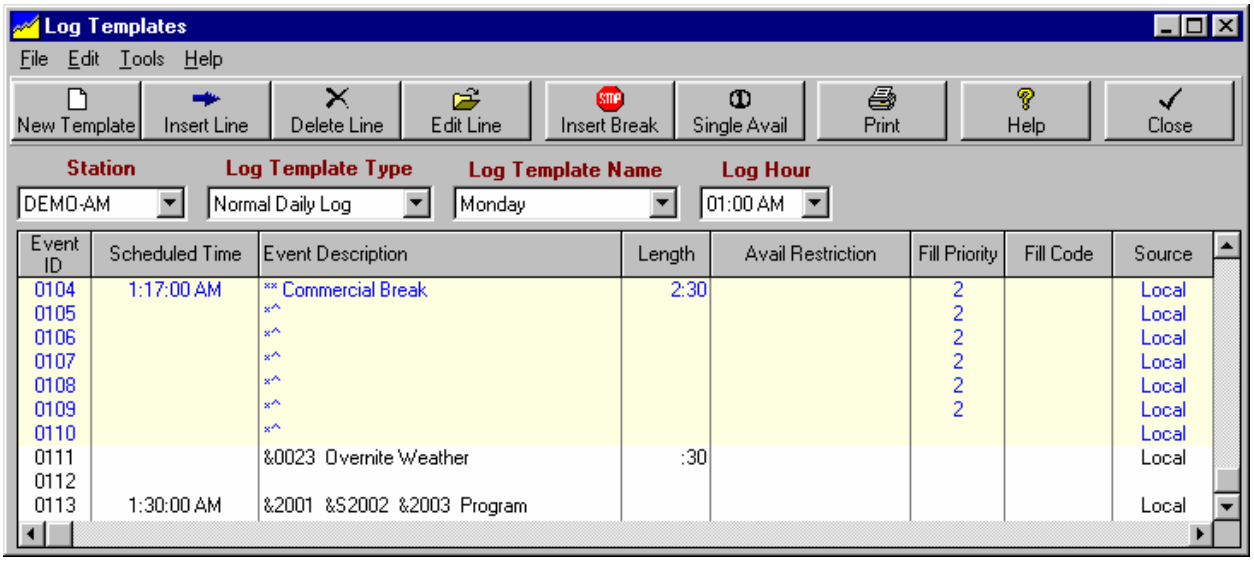
AudioVault AV-Air systems accept certain commands such as "load the next day's log". (See the AudioVault AV-Air manual). These can be entered on your Natural Log Templates as command lines of text. More usefully, you can also use this **&** to play an audio cut from the Log Format. Just enter **&** followed immediately (no spaces) by the audio cut number as the event description in the Natural Log Template Setup (**&####**). This is useful for scheduling weather, jingles, ID's, etc. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

Play Non-Commercial Audio Cut Example - Event 1004 shown below

Assume cut number 0023 your overnight weather. You can tell the automation to play this cut at the end of the commercial break (or anywhere you want it to play). **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**. Note: The Commercial Break length was reduced to 2:30 to account for the 30 seconds of weather which automation does count as part of the cluster but NL8 does not count as part of the commercial break.

Command Sequence Example - Event 0113 shown below

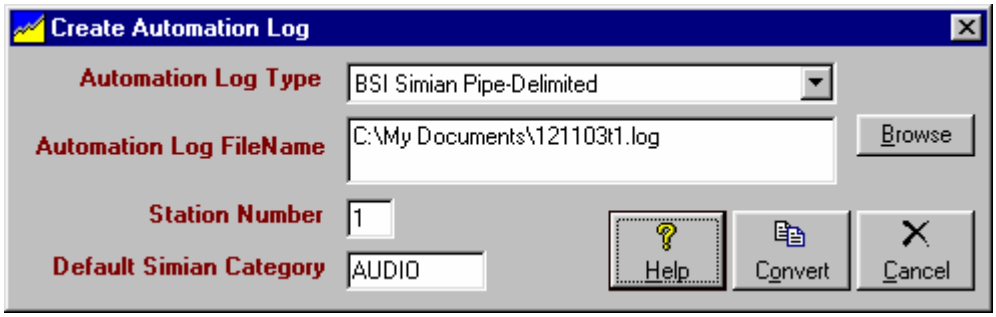
You may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 2001), then play a program (cut 2002), then play a closer (cut 2003). You could enter each item on a separate line, or you could make the entry shown below at event 0113 in the NL8 Log Templates. Note that a single space is inserted between each command or cut and 'Program' is an optional description.

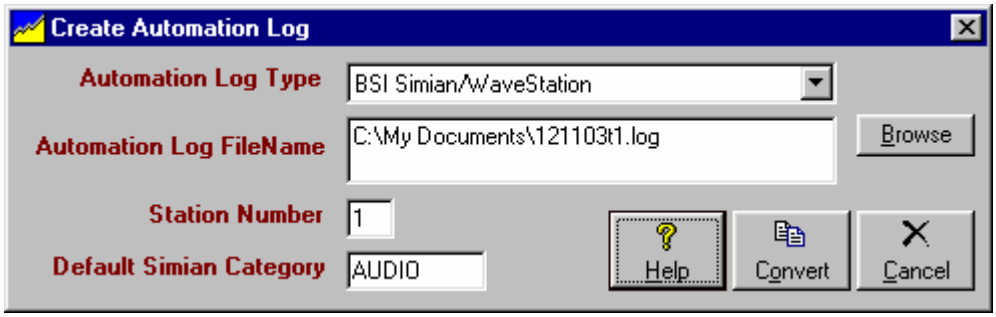


10.08 BSI Simian™ Automation

The instructions for Simian automation also apply to BSI Wavestation versions 3.0 or later.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log. BSI Simian Pipe-Delimited is recommended with Simian.





Configuring the Simian Import Filter

Before you an import the first NL8 log into Simian you must configure the Simian Log Import Filter. There are 2 types of output logs that can be sent from NL8 to Simian.

- **Simian Pipe-Delimited** This Pipe-Delimited output log is now the "standard" way NL8 talks to Simian so it can handle filenames longer than 8 characters. See Configuring Simian for Simian Pipe-Delimited NL8 log in section 10.08.02 of this manual.

- **WaveStation/Simian** This export log matches the format used in the NL-DOS version to talk to WaveStation/Simian but is limited to no more than 8 characters in the audio cut filenames. See Configuring WaveStation/Simian for NL-DOS WaveStation/Simian log in section 10.08.02 of this manual. For backward compatibility with Natural Log for DOS, if NL8 sees an existing Natural Music log it will merge with it and create a combined log for import into Simian, even though Simian can now merge the logs itself if you desire.

Simian Cut FileNames / NL8 CopyID

Simian can use any valid Windows cut ID's. Natural Log 8 can also handle these long file ID's (only if you use the Simian Pipe-Delimited NL8 log). All you need to do is enter the Simian cut number for the particular commercial spot into the "CopyID" field in the Natural Log system when entering the order lines. Make sure the cut ID in NL8 system matches the number in Simian.

10.08 BSI Simian™ Automation (cont)

Log Reconciliation is supported for Simian

Log Reconciliation is supported for all versions of Simian and WaveStation version 2.71 and later. If you do not have a network connection between NL* and Simian, use Simian's Log View Event-Log. Select the day's log, and then File Save As from the NotePad window and save to any floppy disc or folder from which you want Natural log to read it. This is not necessary if Natural log can access the Simian Logs folder across a networked connection.

Then use NL8 **[Convert-Log] [Reconcile Schedule-Log with Play-Log]** function in the Log Editor section of Natural Log, with the day's log loaded into the NL8 Log Editor. You will need to use the [Browse] button to point NL8 to the Play-Log. Natural Log will read the run times and print a discrepancy report.

Output & Input Log FileNames

Output (send) log file

mmddyrT1.LOG	mm is month, dd is day, yr is year station#, T means Traffic Log
110295T1.LOG	is Traffic Log for 11-02-95 for station #1

Input (Reconcile) log file

yrmmdd.LST	mm is month, dd is day, yr is year
9511029.LST	
OR	
yrmmdd.MDB	mm is month, dd is day, yr is year
9511029.MDB	

Details of using the NL8 to Simian Interface

Natural Log has many abilities to cause Simian to perform different activities. These are covered in detail in the following topics. You must configure the Simian import filter [in Simian] before attempting to import a log from NL8.

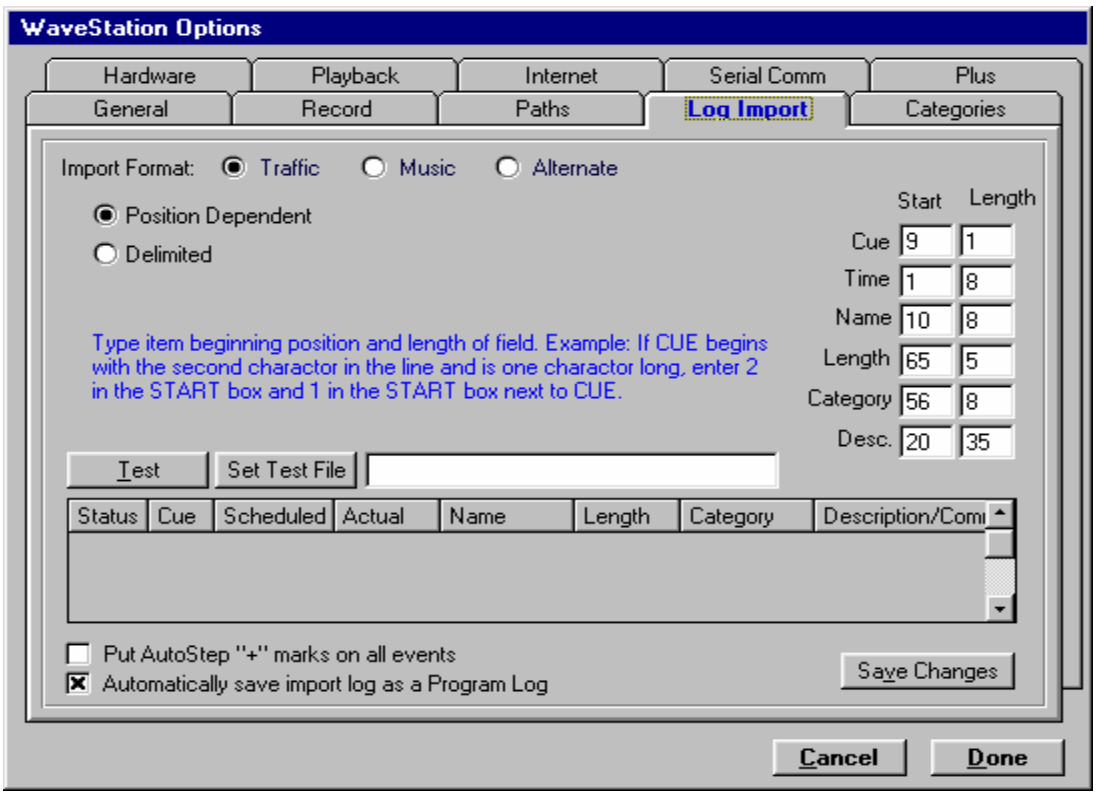
- ❑ Configure WaveStation/Simian Import Filter — Section 10.08.01
- ❑ Configure Simian Pipe-Delimited Import Filter — Section 10.08.02
- ❑ Sending commands from NL8 Templates to Simian — Section 10.08.03
- ❑ Load next day's Simian Log — Section 10.08.04
- ❑ Sending Non-Audio Commands from NL8 Broadcast Orders to Simian — Section 10.08.05
- ❑ Simian Q-Codes — Section 10.08.06

10.08.01 Configure Simian Import Filter

Note: The NL8 **WaveStation/Simian** automation log is the "standard" log export used by Natural Log for DOS for both Simian and WaveStation and may continue to be used by those upgrading from NL for DOS. This format can only handle filenames up to 8 characters.

NL8 also adds a specific **Simian-Pipe Delimited** export type that uses the Simian standard "Pipe-Delimited" format for handling filenames longer than 8 characters. See Configuring WaveStation/Simian for NL-Dos WaveStation/Simian log in section 10.08.05 if you are using the Simian-Pipe-Delimited NL8 automation type.

To use the normal NL-DOS style WaveStation/Simian format, within WaveStation/Simian, you need to click **[Tools [Program Options] [Log Import]**.



- Click **Position Dependent** file format.
- Enter each item as described below and click [Save] before exiting the screen:

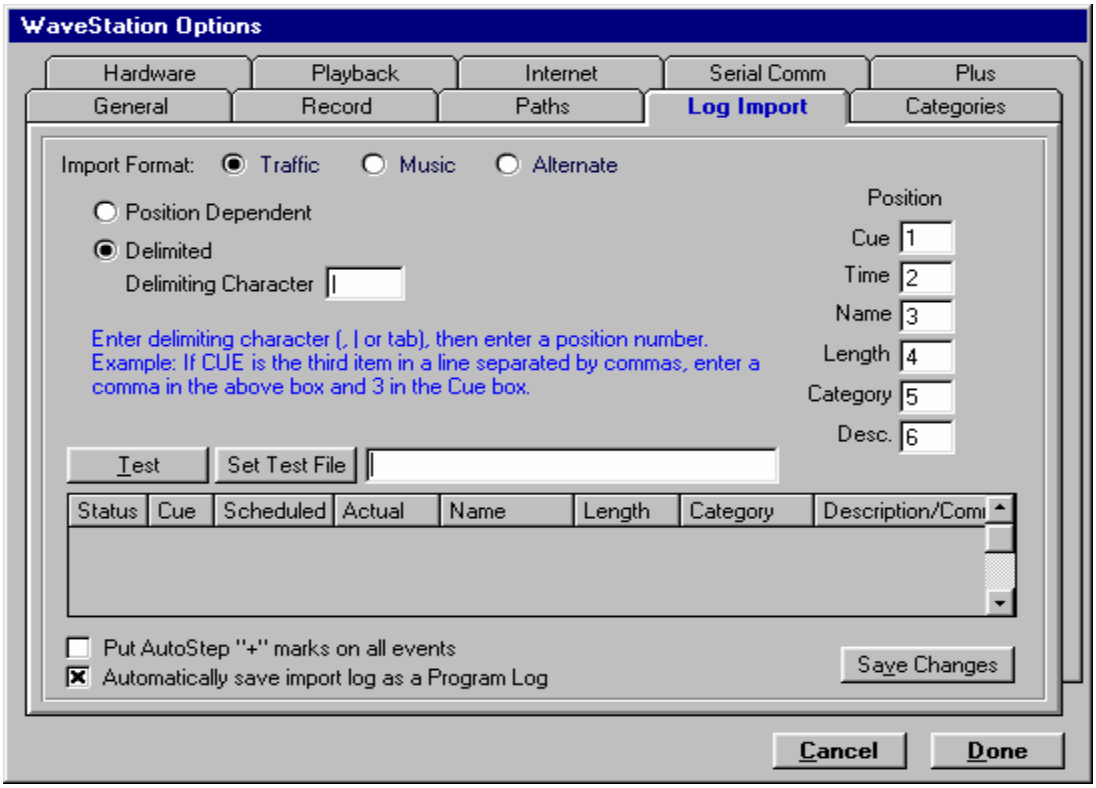
Item	Start	Length
Cue	9	1
Time	1	8
Name	10	8
Length	65	5
Category	56	8
Description	20	35

- Be sure you uncheck the **Put Autostep + on all events** box in Simian. If you do not uncheck this box, Simian will not read any Q codes from Natural Log.
- Click **[Save Changes]** then **[Done]**.

10.08.02 Configure Pipe-Delimited Simian Import Filter

Note: This Pipe-Delimited output log is now the "standard" way NL8 talks to Simian so it can handle filenames longer than 8 characters. There is another NL8 export which matches the format used in the NL-DOS version to talk to WaveStation/Simian but that format is limited to no more than 8 characters in the audio cut filenames. See WaveStation/Simian Import Filter in section 10.08.04

To use the new Simian Pipe-Delimited format, within Simian, you need to use the Simian Setup, Program Setup, Log Import function.



- Click **Delimited** file format.
- Enter **|** as the delimiter
- Enter each item as described below and click [Save] before exiting the screen:

Item	Col
Cue	1
Time	2
Name	3
Length	4
Category	5
Description	6

- Be sure you uncheck the **Put Autostep + on all events** box in Simian. If you do not uncheck this box, Simian will not read any Q codes from Natural Log.
- Click **[Save Changes]** then **[Done]**.

10.08.03 Sending Commands from NL8 Templates to Simian™

Background Timed Events which do not affect the log such as recording network audio, network switching, etc. can now be pre-scheduled using Simian **Scheduled Events**. There should be little need to send timed event commands from Natural Log.

BSI provides technical support for programming their Simian product! Please call them (1-500-677-TECH) for specifics regarding the macro commands (such as network switching) to be executed by Simian. We are unable to provide assistance regarding the specific commands needed by Simian but once BSI provides the Simian command settings, we will help you translate the commands into text to be placed on the Natural Log format. The following samples and the explanation for each should show how any Simian Macro command can be entered in Natural Log.

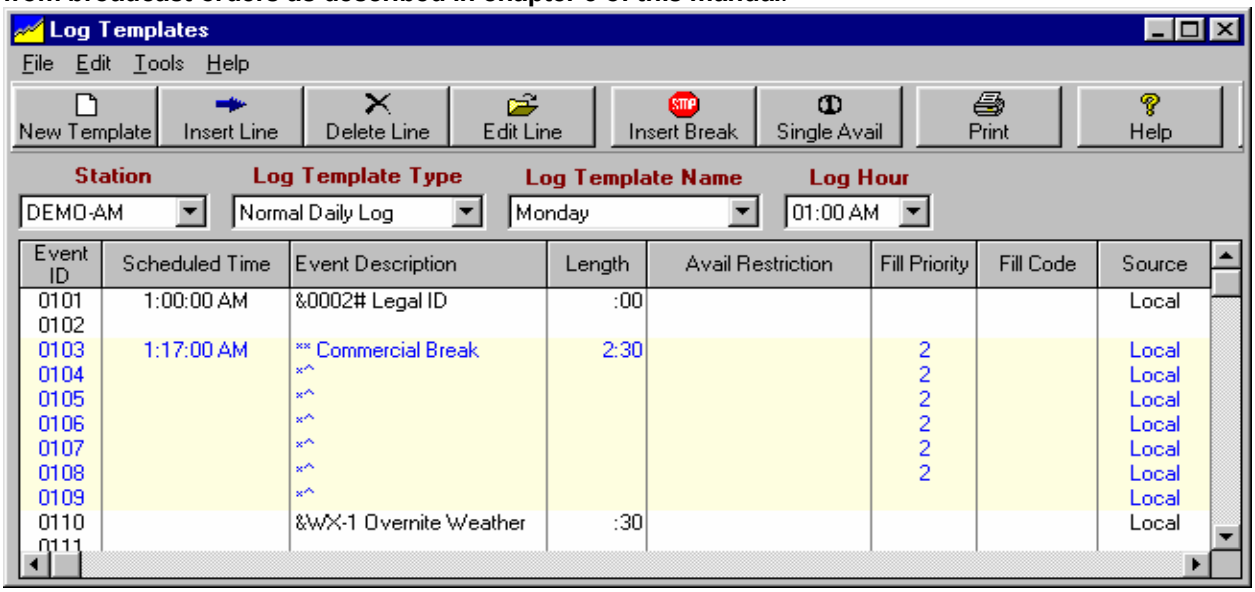
Telling Simian to play a specific "non-commercial" audio cut

Commercials should always be scheduled from broadcast orders as described in chapter 3. You may need to run other items such as weather, promos, jingles, etc. for which you don't want to enter a broadcast order. These can be placed directly in the **Event Description** column of the NL8 log templates as follows.

- Start with **&**
- Follow immediately [no spaces] with the name of the **audio cut** to play
- Optionally follow immediately by the **Q-Code** [+ is assumed if Q not entered]
- At least 1 **blank space**
- An optional **description**

Example 1 - Shown below at event 0101 A command to play a legal ID audio cut named 0002 with a Q of **#** [to designate "Time Next"] is shown on event 0101.

Example 2 - Shown below at event 0110 Assume you want to run weather at the end of a 2:00 Commercial Break. If your weather is named WX-1, you could make the entry shown on event 0110 below. The break starting at event 0103 plays 2:30 of commercials and segues into event 0110 which plays audio cut named WX-1. If there are no spots, the weather will play by itself. Note the length of the commercial break was reduced by the length of the weather. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.



10.08.03 Sending Commands from NL8 Templates to Simian™ (cont)

Tell Simian Automation to Execute Non-Audio Simian Categories

Simian uses several different "categories" for things that can be scheduled on its log. "Non-Audio" categories do things other than play an audio file. These can be placed directly in the **Event Description** column of the NL8 log templates as follows.

- Start with **&**
- Follow Immediately with the **[Category]** within brackets
- Follow immedtaiely by the **Q-Code** [+ is assumed if Q not entered]
- At least 1 **blank space**
- The name of the command or command parameters to be used by Simian.

To save space on the log event line, you may insert just the first character [within brackets] of certain "standard" categories. These "standard" categories with abbreviations in Natural Log are:

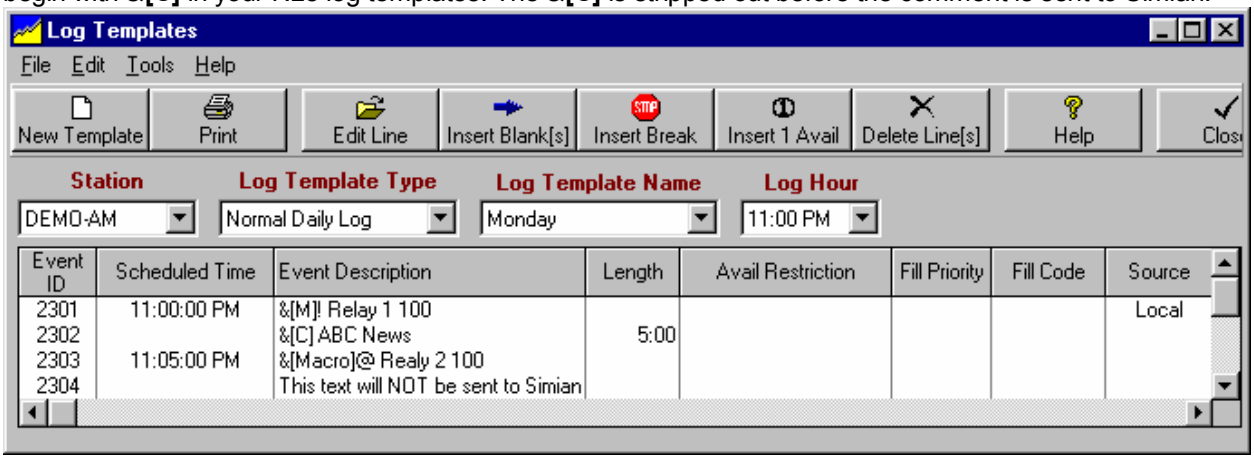
Natural Log Abbreviation	Simian Category	Meaning
&[R]	REC	Record (no longer used)
&[T]	TEXT	Display Text
&[M]	MACRO	Execute a Macro
&[LOG]	LOG	Load a Day's Log
&[A]	APP	Run an Application
&[L]	LIST	Execute a List
&[C]	COMMENT	Comment Line

Back-Time Macro Example - Event 2301 shown below

In the example below, event 2301 is a "Back Time" Macro [due to the ! Q-Code] to switch relay 1 on at 11:00 PM for 100 milliseconds. Event 2303 is a "Time Immediate" Macro [due to the @ Q-Code] to switch relay 2 on at 11:05 PM for 100 milliseconds. This might be used to join and leave a network. Your commands will be based on your actual Simian hardware setup, but all Simian macros and categories may be placed in an NL8 log template in this manner using the categories enclosed within brackets.

Comment Example - Event 2302 shown below

Event 2302 is a comment which is simply a line of text that will be displayed on the Simian log screen but is not executed by the automation. It is just skipped. **Note** that event 2304 below will not be sent to Simian as a comment since it does not start with **&[C]**. Comments you want to show be shown on-screen is Simian must begin with **&[C]** in your NL8 log templates. The **&[C]** is stripped out before the comment is sent to Simian.



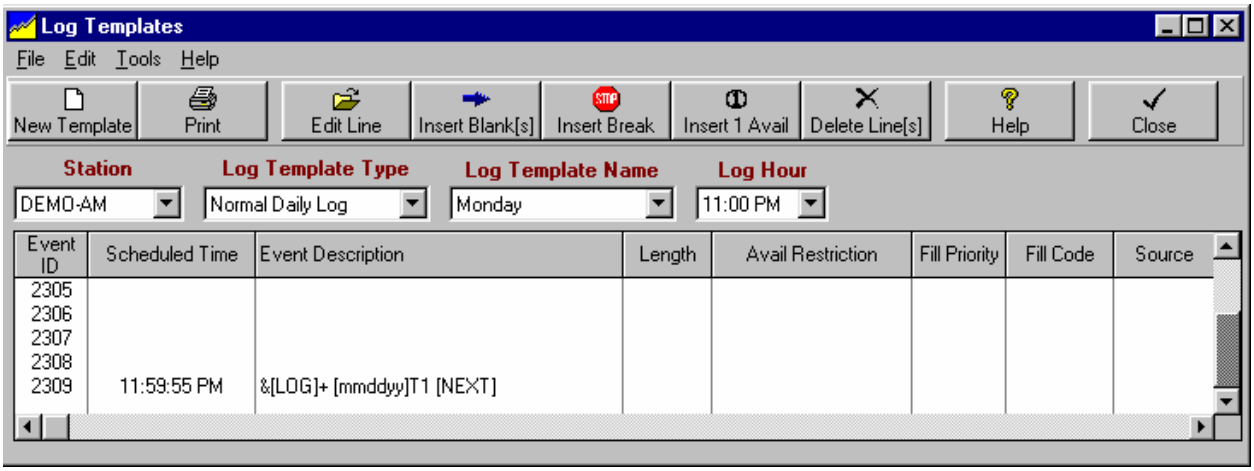
10.08.04 Load Next Day's Simian™ Log

Note: This [LOG] command is now outdated. Simian now has a means to internally schedule the loading of the next day's log and is more reliable. Please use it. This method is included for users of older versions of Simian and WaveStation that do not have the automatic log loading

The command sequence to tell WaveStation/Simian to Load Next Day's Log:

- **& [LOG]+**
- A **blank space**
- **[MMDDYY]**
- A 2-digit Letter/Number combination such as **T1, T2, T3,** etc .to designate the station# if used.
- A **blank space**
- **[NEXT]**

Example: To load the next day's log enter the following as the last event in each day's log format in enter the text shown on event 2309 below in the Natural Log Templates.



This assumes you are using the Natural Log naming convention which is MMDDY followed by T for traffic, M for Music, or C for Combined log, followed by the station #. In the above example, Natural Log will automatically substitute the next day's date formatted as MMDDYY instead of the [mmddyy] [NEXT] when the log is converted to Simian.

If you do not use the MMDDYY log naming convention, you will have to manually enter the load log command each day using &[LOG] ?????? where ?????? is the actual name of the next days log. **Per BSI do not make the Load-log command a timed event (do not put its Q as @ or # or !).**

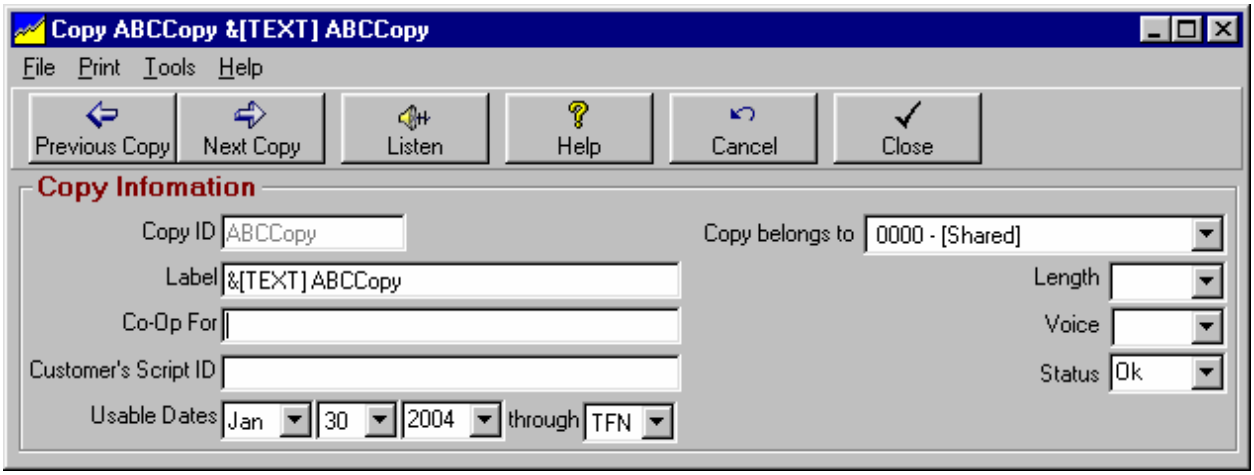
Also see Auto-inserting date/time items into log templates in Chapter 5.

10.08.05 Sending Non-Audio Commands & Categories from NL8 Broadcast Orders to Simian

Normally NL8 sends **Audio** as the Simian Category for any item scheduled from a Broadcast Order. **[Note this default Category value can be changed on the NL8 Automation-Conversion screen]**. To send a Category on an individual logged item other than the default Category from a Broadcast Order, enter the Category using **&[Category]**, in the Label field of the Copy Manager, and schedule the CopyID to run on an order.

Live Copy Example

You want Simian to pop open a TEXT file so an announcer can read some live copy. Assume you use CopyID ABCCOPY. In Natural Log Copy Manager, you'd enter the label for Spot ABCDEF as **&[TEXT] ABCCOPY1**. Be sure to put the space between the &[TEXT] and the ABCCOPY1. Text file named ABCCOPY1 will be displayed by Simian whenever CopyID ABCCOPY is scheduled by a Natural Log broadcast Order.



10.08.06 BSI Simian™ Q-Codes

Simian automation uses codes [designated as Q in Simian] to determine how an event starts or is triggered. Natural Log will insert these in the Log file. The + is always sent as the Q unless you send another Q-Code as shown on the next page.

+ Segues after prior event or cut ends. This is the default value used by Natural Music

@ Plays at a specific time without waiting for previous event to end

Plays at a specific time but waits for a playing cut or event to end. This is useful to skip any unplayed items at the end of an hour and reposition the WaveStation/Simian to begin a new hour at the appropriate log position to keep it on schedule.

! Wait for "BackTimed Start". This causes Simian to change the pitch of the playing audio to backtime to a specific event. See Simian Manual for more information.

$ Wait for "Manual Start" (Converted to Q=[Blank] when sent to WaveStation/Simian)

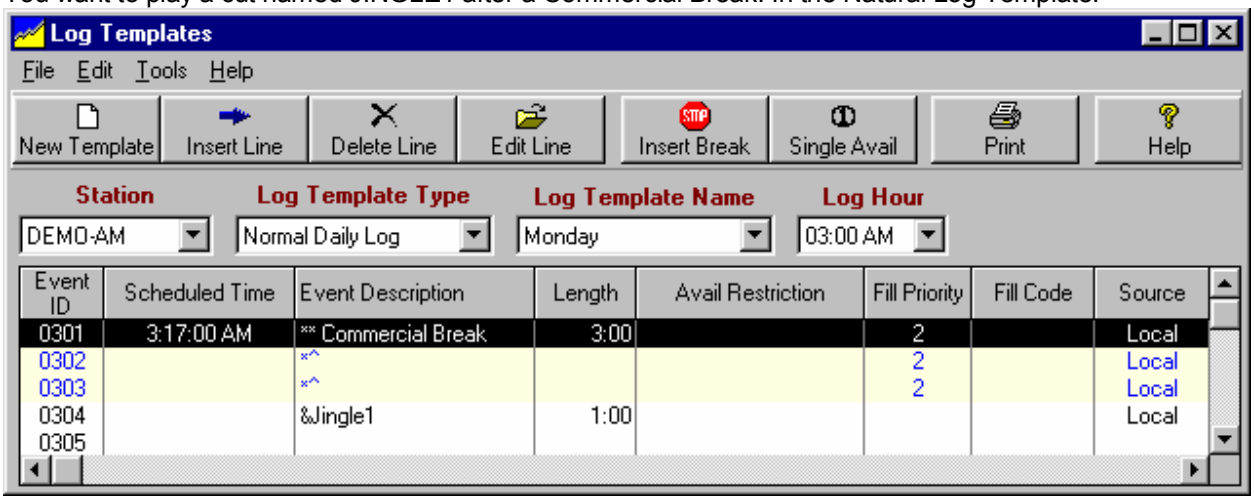
~ Used only with WaveStation/Simian version 3 and later. Converted to N when sent to WaveStation/Simian for non-sequential timed start of recording, switching, etc.

Automatic Segue Between Events

The easiest way to send a Q-Code (start code) is send no Q-code and let Natural Log assume that the start code is Segue **+**.

Automatic Segue Example

You want to play a cut named JINGLE1 after a Commercial Break. In the Natural Log Template:



The **&JINGLE** on event 0304 tells Simian to automatically segue [since no Q-Code is entered after JINGLE1 NL8 sends **+** as the Q-Code] and play JINGLE1 after the spots in the commercial set [if any] play. **&JINLGE1+** would accomplish the same effect.

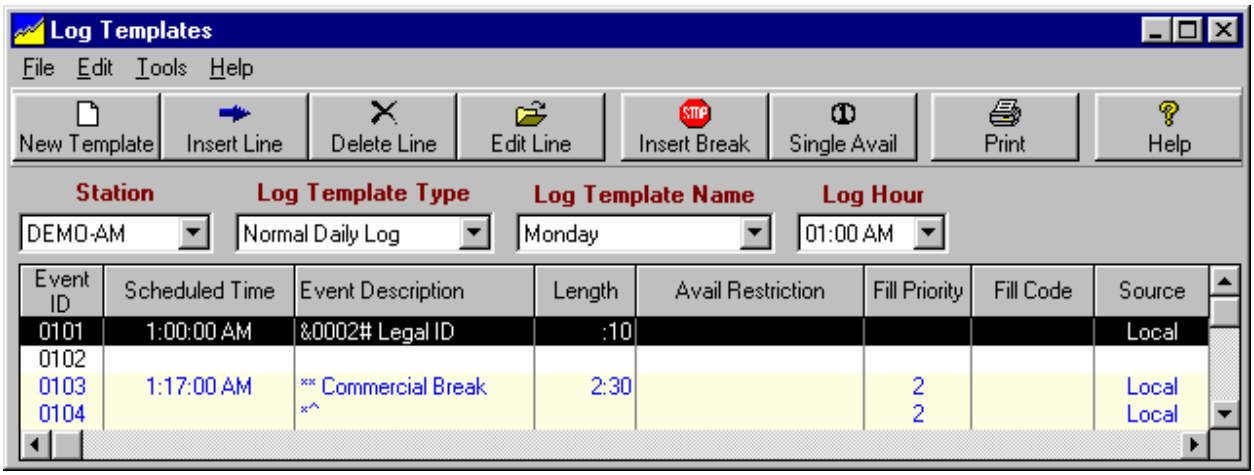
10.08.06 BSI Simian™ Q-Codes (cont)

Specifying Q-Codes on Simian Commands Sent From NL8

If you need to send one of the other Q-Codes on a text command sent from NL8 to Simian, [+ @ # $!], the easiest way is to simply put the code at the end of the command or cut to be played on the Natural Log Template. This will tell Simian how that event should be triggered.

Specifying the Q on a Text Command Line Example

You have a legal ID you always want to run at the top of the hour, without interrupting the currently running audio. In the Natural Log Templates:



- The **&** on event line 0101 indicates a command or cut to start at time 1:00:00 AM
- The # tells Natural Log to send the # as the Q [start code] to Simian for the cut named 0002.
- The # Q code causes Simian to move to that event at 1:00:00 AM, then after whatever is currently playing ends, it will play cut named 0002.
- It will then segue to the next logged item after event 0101.

Commercial Break Q-Codes

Natural Log's default command to Simian is to automatically segue to begin commercial sets, so you do not need to send any Q-code if you simply want to segue from the preceding music or other audio to the spots in the commercial set.

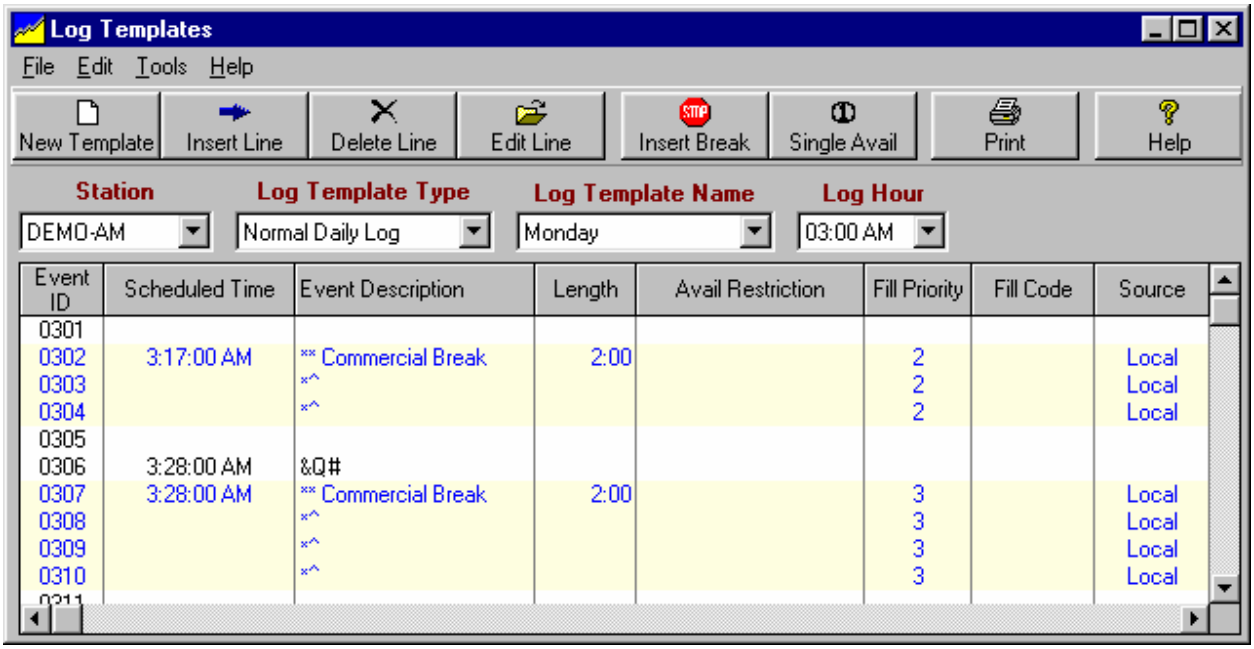
To control the start of Commercial Breaks which don't start by automatic segue, you need to send one of the Q-Codes @ # $! which is the Simian "start code". These Q-Codes sent immediately before a commercial set only apply to the commercial set which runs at the same time as the Q-Code time.

Automatic Segue Into Commercial Breaks Example - Event 0302 show below

You want the break at 03:17:00 AM to begin playing automatically after the previous event ends. In this example below, no Q-Code is entered so automatic segue + is assumed. See the example at log template event 0301 below. The first item in that break will have a Q of + since none specific Q is listed.

SKIP-TO-TIME and "Start After Current event ends" Example - Event 0306 shown below

Assume you need to have a commercial break "about" 03:28:00 AM and you want Simian to skip any unplayed music or other cuts and cue up the commercial break so it is the next to start after 03:28:00 AM. See the example at log template event 0310 below. The &Q# tells the Natural Log to send the # as the Q [start code] to Simian for the next item only. Simian will skip ahead at 03:28:00 AM and after whatever is currently playing ends will play the spots [if any] in the break that are inserted by Natural Log on lines 0307 through 0310.



Event ID	Scheduled Time	Event Description	Length	Avail Restriction	Fill Priority	Fill Code	Source
0301							
0302	3:17:00 AM	** Commercial Break	2:00		2		Local
0303		*^			2		Local
0304		*^			2		Local
0305							
0306	3:28:00 AM	&Q#					
0307	3:28:00 AM	** Commercial Break	2:00		3		Local
0308		*^			3		Local
0309		*^			3		Local
0310		*^			3		Local

Continued on next page.

10.08.06 BSI Simian™ Q-Codes (cont)

Commercial Break Q-Codes(cont)

Manual Commercial Start Example - Event 0312 shown below

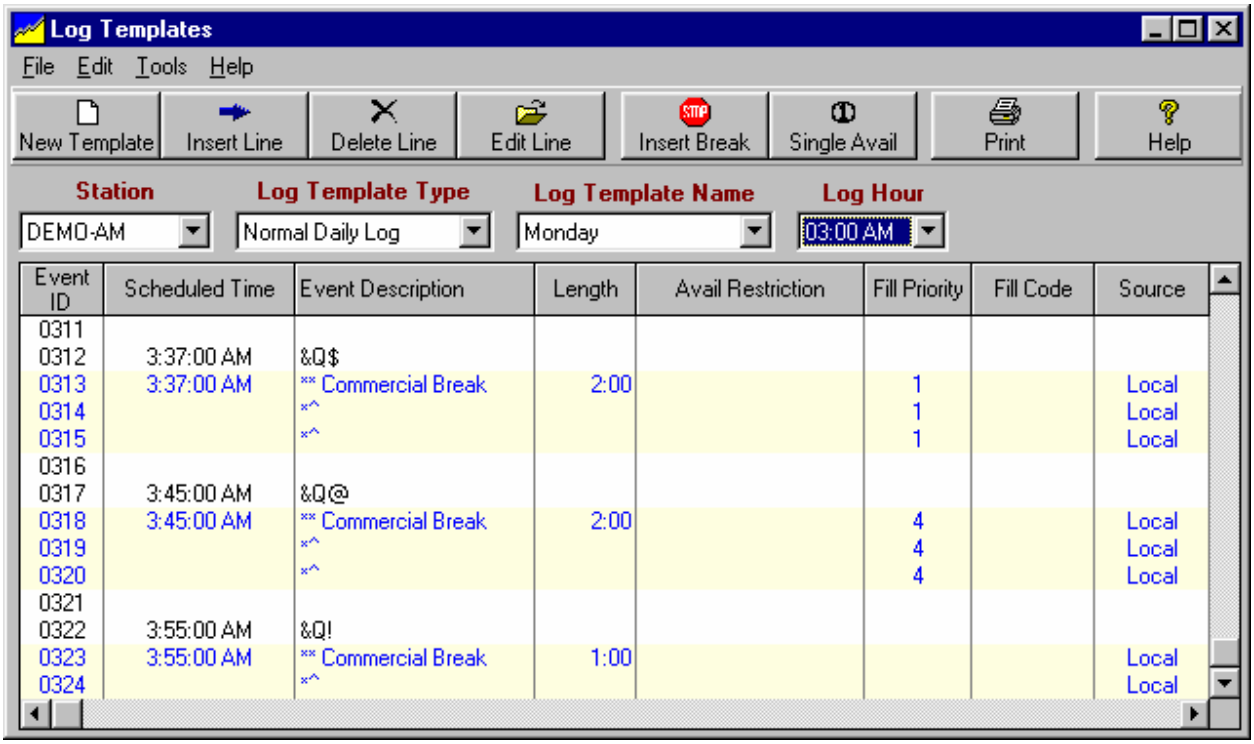
In "live assist mode" suppose you want a commercial break to run at 03:37:00 AM. However, you want Simian to pause to allow your live announcer to talk before the spots start. The &Q$ tells the NL8 to send a [blank] as the Q [start code] to Simian for the first spot in the break. This [Blank] Q-code tells Simian to finish playing the last event before the spots and then to wait for the announcer to issue a Manual Start before starting the spots that follow [if any].

Commercial Break Start at EXACT Time Example - Event 0317 shown below

Suppose you need to have a commercial break run exactly at 03:45:00 AM. You want Simian to skip any unplayed music or other cuts, cut off the currently playing cut, and start the timed event. The Q@ tells the NL8 to send **@** as Q [start code] to Simian for the first spot in the break starting at event 0319. Simian will skip ahead at 03:45:00 AM and cut off whatever is currently playing. Then it will play the play the following break spots [if any] that are inserted by Natural Log on lines 0319 through 0323.

Commercial BackTime Start Example - Event 0322 shown below

Suppose you need to have a commercial break start exactly at 03:55:00 AM but you don't want to interrupt whatever is playing. You want to force Simian to skip any unplayed music or other cuts, and stretch or shrink the current playing item to make it end exactly at 03:55:00 AM. This would most often be done to join a network at an exact time without cutting off something in the middle. The &Q! tells NL8 to send the **!** as Q [start code] to Simian for the first spot in the break [if any]. Simian will shrink or stretch whatever is currently playing so that it ends exactly at 03:55:00. Then it will play the play the following spots [if any] that are inserted by NL8 on lines 0323 through 0324.



Event ID	Scheduled Time	Event Description	Length	Avail Restriction	Fill Priority	Fill Code	Source
0311							
0312	3:37:00 AM	&Q$					
0313	3:37:00 AM	** Commercial Break	2:00		1		Local
0314		»^			1		Local
0315		»^			1		Local
0316							
0317	3:45:00 AM	&Q@					
0318	3:45:00 AM	** Commercial Break	2:00		4		Local
0319		»^			4		Local
0320		»^			4		Local
0321							
0322	3:55:00 AM	&Q!					
0323	3:55:00 AM	** Commercial Break	1:00				Local
0324		»^					Local

Commercial Break Q-Codes (cont)

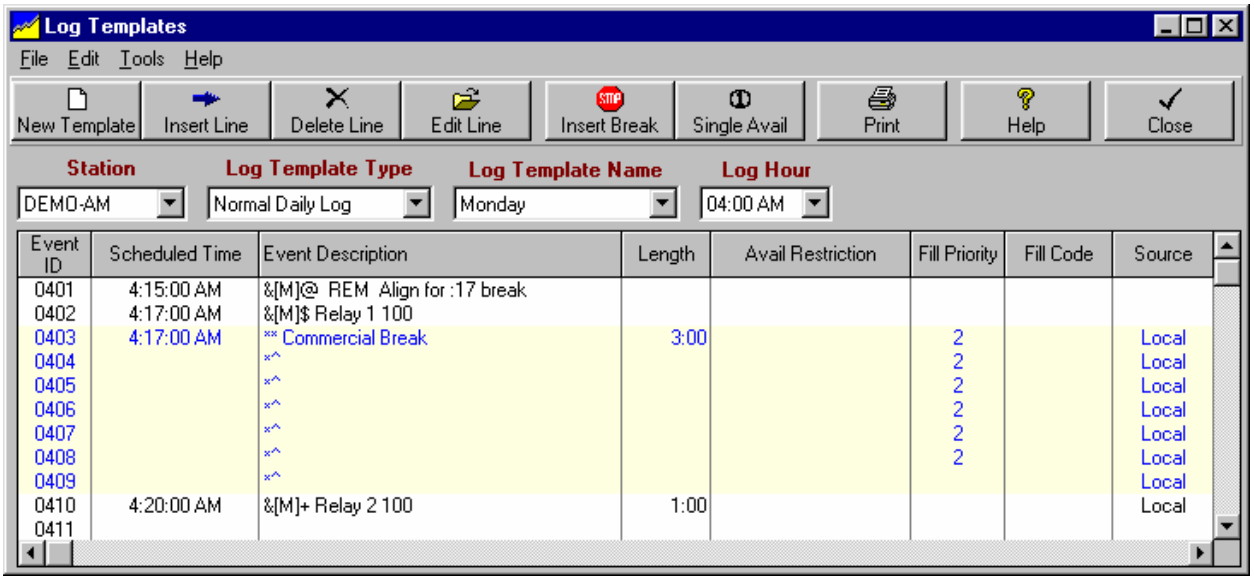
Commercial Break Satellite Trigger [Contact Closure] Start Example - Event 0402 shown below

In "Satellite mode", contact closures from the network start your commercial breaks. There must be a "break marker" for each commercial break even if empty so the Simian stays "in sync" with the network. With no break marker for an empty spot break, Simian would be positioned at the wrong break when the next contact closure comes. The example assumes you are using a Satellite Relay switcher. If running Network audio through the AUX input on your audio card, contact BSI for the appropriate Macro commands to use.

&[M]$ sends [Blank] as the Q [start code] to Simian so it will stop and wait to receive the network contact closure before executing the command to close RELAY 1 for 100 microseconds (Network OFF). If no spots are scheduled, the RELAY 2 100 (Network ON) is immediately executed and network audio is NOT interrupted. If there are spots, they will be auto-started, and then RELAY 2 100 (Network ON) is executed after the last spot due to the + Q code on line 0410. Either way, Simian then goes to the next commercial break and waits for the next network contact closure.

Optional Break Alignment Start Example - Event 0401 shown below

In "Satellite mode", contact closures from the network start your commercial breaks. Some users want to be sure Simian is positioned at the correct break when the contact closure comes. The optional entry shown on event 0401 below will cause Simian to align at event 0402 at 4:15:00 AM and wait for the contact closure for the following break. This forces Simian to play the correct break even if an earlier closure was missed for some reason.



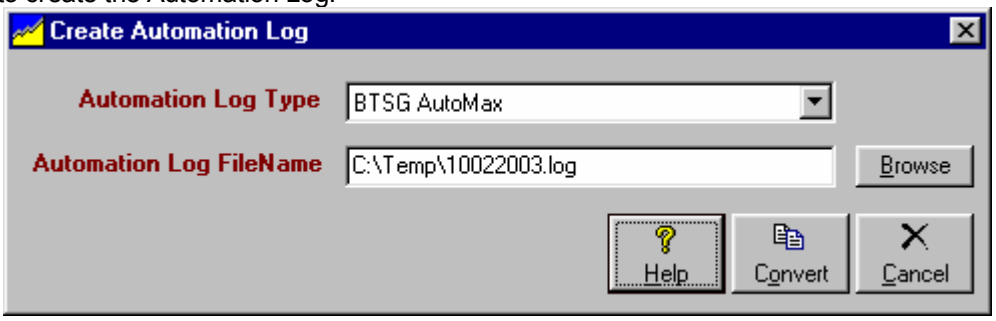
This is an example only, your Relay numbers will be different or you may use the built-in audio mixer on your audio board, in which case you will use MIXVOL macros to turn the network up and down instead of the RELAY macros in this example.

10.09 BTSG AutoMax™ Automation

BTSG 'Generation IV' users must use the BTSG Gen-IV automation log! Do NOT use this section!

NOTE: The BTSG systems have their own "reader" module which reads an ASCII file containing the commercial log. Natural Log can generate such a file as described on page 11-71. Use this File Format to have BTSG personnel configure their Reader module to read this file. Alternatively, you may send one of the automation log files to BTSG so they can configure the reader. BSTG AutoMax uses a modified version of the 'Generic Text [NL-DOS format]' log output file as described below.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log]** **[Automation Log]** to create the Automation Log.



BSTG AutoMax Cut Numbers

Any alphanumeric CutID from 1 to 8 alphanumeric characters is acceptable. All you need to do is enter the BTSG cut number for the particular commercial spot into the "CopyID" field in the Natural Log system when entering the order lines. Make sure the number in NL8 exactly matches the number in the AutoMAx (including leading 0's if used).

Log Reconciliation not supported for BTSG AutoMax.

If the vendor will provide play log specs we will support reconciliation.

Output & Input Log FileNames

Output (send) log file

mmddyyyy.LOG	mm=month, dd=day, yyyy=year
11021995.LOG	is Send Log 11-02-95 for station1

NL8 output log format for BTSG AutoMax only

Column	Length	Field Description
1	3	Scheduled Hour (##:)
4	3	Scheduled Minute (##:)
7	2	Scheduled Second (##)
10	8	Cart number (filename to play, left justified)
19	1	Start Code (**S**egue, **L**oad, **A**utoplay, **N**ormal)
20	24	Event description (sponsor name,etc)
45	5	Length in mm:ss
50	8	AUX commands
59	16	Reserved for Artist Name for Music
75	4	Natural Log event pointer for reconciliation
79	2	Carriage Return / Line Feed

10.09 BTSG AutoMax™ Automation

End-of-Break Markers and Skip-Break Markers

This applies only to stations using BTSG to run a satellite-based format. You must tell BTSG to stop at the end of a break (by sending a blank line). You also need to tell it to SKIP any unused breaks. This is done as follows. Put &BREAK by itself on the line before each break and & by itself on the line after each break. This will cause a SKIP command to be sent to BTSG for any empty breaks, and a blank line at the end of each break. This only applies to satellite formats. If you do this on a music format, the BSTG will stop at the end of each break. **See example at events 0012 through 0017 shown below**.

BTSG AutoMax Automation Commands

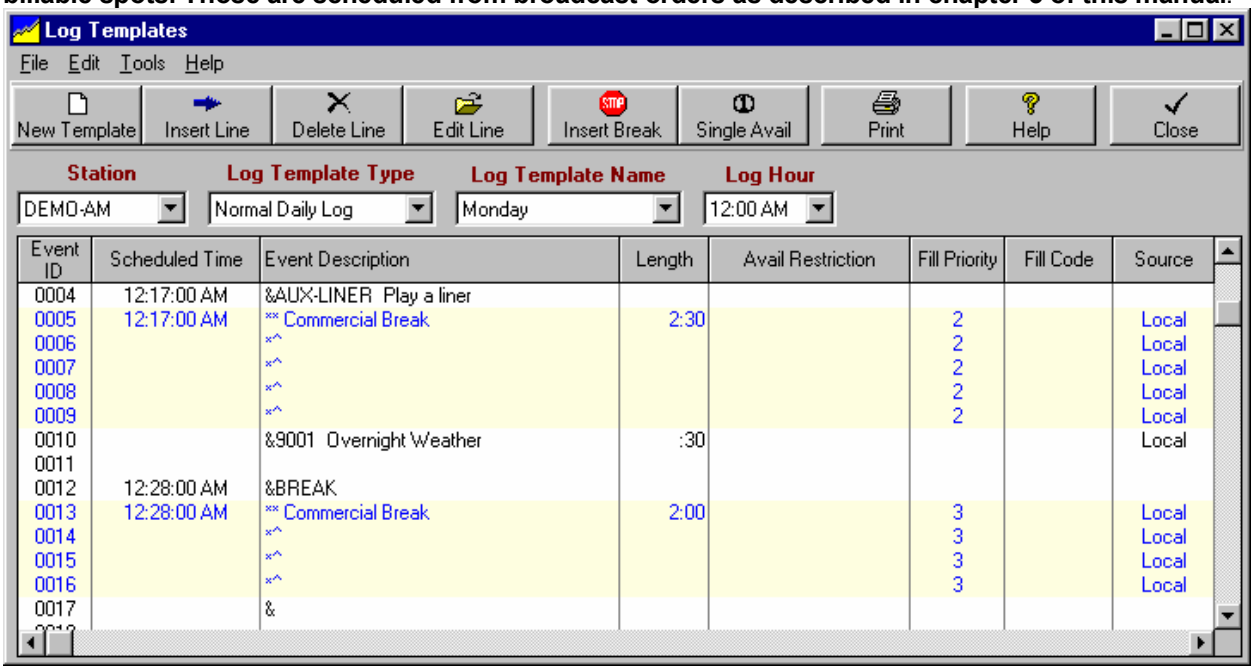
Commands can be sent to the automation (such as source switching, playing liners,etc) from the Natural Log system. These can be entered on your Natural Log Templates as command lines of text. More usefully, you can also use this **&** to play an audio cut from the Log Format. Just enter **&** followed immediately (no spaces) by the audio cut number as the event description in the Natural Log Template Setup (**&#####**). This is useful for scheduling weather, jingles, ID's, etc. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

Play Aux Item Example - Event 0004 shown below

The command to play a liner may be an AUX event descriptiond LINER. You would enter this as &AUX-LINER in the event description column when entering your log Templates for Natural Log. This works with any automation commands, just use the **&** when entering the event description on the Natural Log Template. If it is an audio event just enter the Cut Number after the &. If it is an AUX event, enter AUX- followed by the event to execute.

Play Non-Commercial Audio Cut Example - Event 0010 shown below

You need to run weather at a certain time each day. If weather is named **9001**, you could make the entry shown below at event 0010. This would play 2:30 of commercials followed by the weather. NL8 only needs the **&9001** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

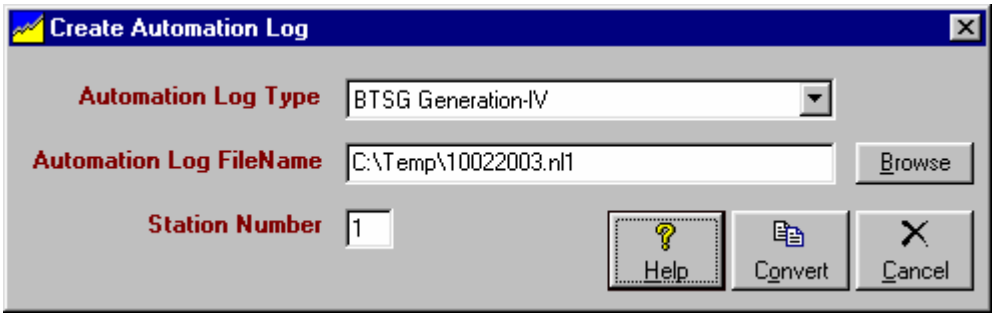


Event ID	Scheduled Time	Event Description	Length	Avail Restriction	Fill Priority	Fill Code	Source
0004	12:17:00 AM	&AUX-LINER Play a liner					
0005	12:17:00 AM	** Commercial Break	2:30		2		Local
0006		*^			2		Local
0007		*^			2		Local
0008		*^			2		Local
0009		*^			2		Local
0010		&9001 Overnight Weather	:30				Local
0011							
0012	12:28:00 AM	&BREAK					
0013	12:28:00 AM	** Commercial Break	2:00		3		Local
0014		*^			3		Local
0015		*^			3		Local
0016		*^			3		Local
0017		&					

10.10 BTSG Gen-IV™ Automation

BTSG 'Generation IV' users must use the BTSG Gen-AutoMax log! Do NOT use this section!

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log]** **[Automation Log]** to create the Automation Log.



BSTG Gen-IV Cut Numbers

Any alphanumeric CutID from 1 to 8 alphanumeric characters is acceptable. All you need to do is enter the Gen-IV cut number for the particular commercial spot into the "CopyID" field in the Natural Log system when entering the order lines. Make sure the number in NL8 exactly matches the number in the Gen-IV (including leading 0's if used).

Log Reconciliation not supported for BTSG Gen-IV.

If the vendor will provide play log specs we will support reconciliation.

Output & Input Log FileNames

Output (send) log file

mmddyyyy.NL# mm=month, dd=day, yyyy=year, #=NL station# 11021995.NL1 is Send Log 11-02-95 for station1

NL8 output log format for BTSG Gen-IV only

Column	Length	Field Description
1	8	Scheduled time hh:mm:ss (military time)
10	8	Cart number (filename to play, left justified)
20	24	Event description (Sponsor name, Title, etc)
45	5	Length in mm:ss format
51	24	Reserved for artist name in Natural Log
76	4	Natural Log event pointer for reconciliation
81	4	BTSG 'Category'
86	1	BTSG Sync Code H,S, or blank

10.10 BTSG Gen-IV™ Automation (cont)

Gen-IV Commands

Commands can be sent to the automation (such as source switching, playing liners, etc.) from the Natural Log system. On the Natural Log Templates simply enter **&** and then the category and command code letter/numbers in the Event description. NL8 will pick up the category and command or cut name to play by capturing all characters between **&** and the first space in the event description. You must put the BTSG "Category" followed by a dash and then the cut identifier. See examples on the following page.

Gen-IV Play Non-Commercial Audio Example - Event 0025 shown below

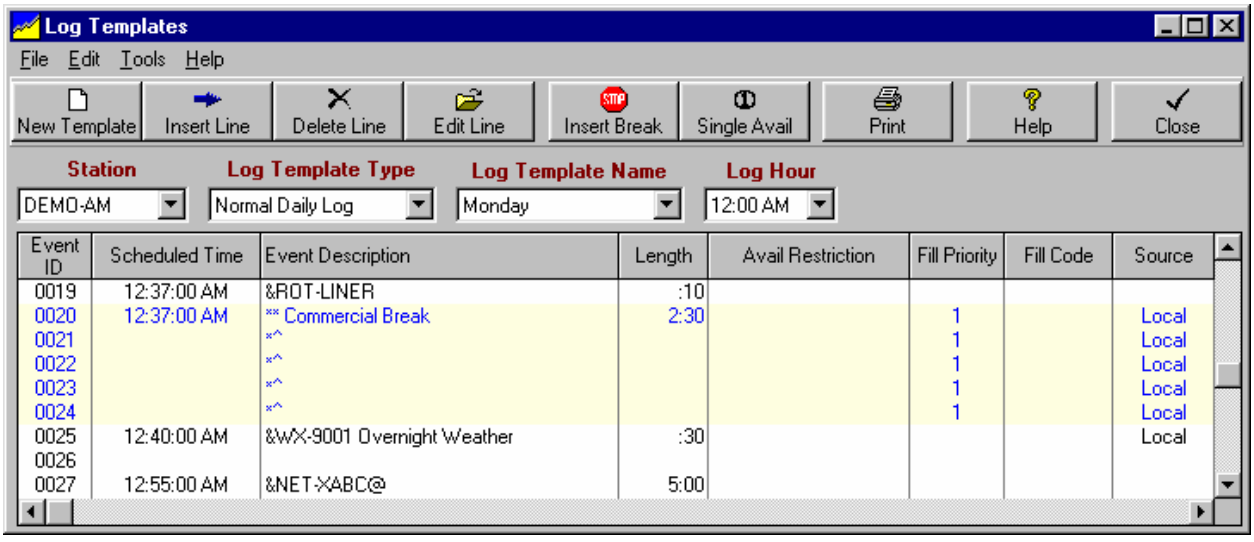
Assume you want to play a cut named 1002 from category WX before a commercial break. You would enter this as **&WX-1002** in the event description column in the NL8 log templates. This will work with any of the automation commands, just use the **&** when entering the event description on the Natural Log Template followed by the BTSG category, a dash, then the cut ID, then at least one space and an optional description. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

Gen-IV Rotator Example - Event 0019 shown below

Assume you want to run a BTSG rotator named LINERS going into the break. You could make the entry shown on event 0019 below in the Natural Log Templates. This would a cut from the BTSG Gen-IV LINER rotator immediately before the commercial break. Note the use of ROT as the BSTG category.

Gen-IV Network Join Example - Event 0027 shown below

Assume you want to join a network at the top of the hour for news for 5 minutes. You could make this entry in the Natural Log templates: Note the use of NET as the BSTG category and the cut ID is the network ID as specified in BSTG. Note the @ forces a "hard sync" in BTSG. To make it a "soft sync" use the # as in NET-XABC#.



Event ID	Scheduled Time	Event Description	Length	Avail Restriction	Fill Priority	Fill Code	Source
0019	12:37:00 AM	&ROT-LINER	:10				
0020	12:37:00 AM	** Commercial Break	2:30		1		Local
0021		*^			1		Local
0022		*^			1		Local
0023		*^			1		Local
0024		*^			1		Local
0025	12:40:00 AM	&WX-9001 Overnight Weather	:30				Local
0026							
0027	12:55:00 AM	&NET-XABC@	5:00				

BTSG Gen-IV Sync Commands

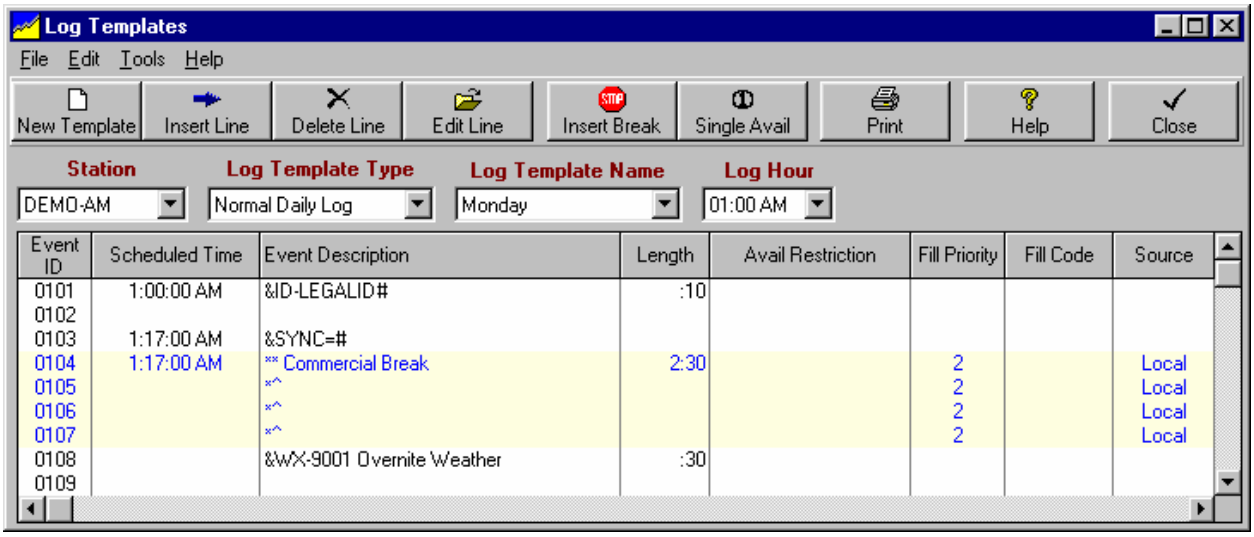
Sync Commands can be sent to BSTG Gen-IV by NL. NL reads # as a "soft sync" and @ as a "hard sync". A **soft sync** means BTSG moves to that event at that time but does not start playing it until whatever is currently playing finishes. A **hard sync** means BTSG moves to that event at that time, fades whatever is playing, and immediately plays the event.

Soft Sync Example- Event 0101 shown below

Assume you want to make sure you do an ID near the top of the hour but you don't want to stop what is playing at the top of the hour. This is a "soft sync" in BSTG Gen-IV. This would sync to the Legal ID at the top of the hour and play it immediately after whatever is playing finishes. Note the # forces a "soft sync" in BTSG. To make it a "hard sync" use the @ and whatever is playing will be faded and this event will begin.

Sync Example for Breaks - Event 0103 shown below

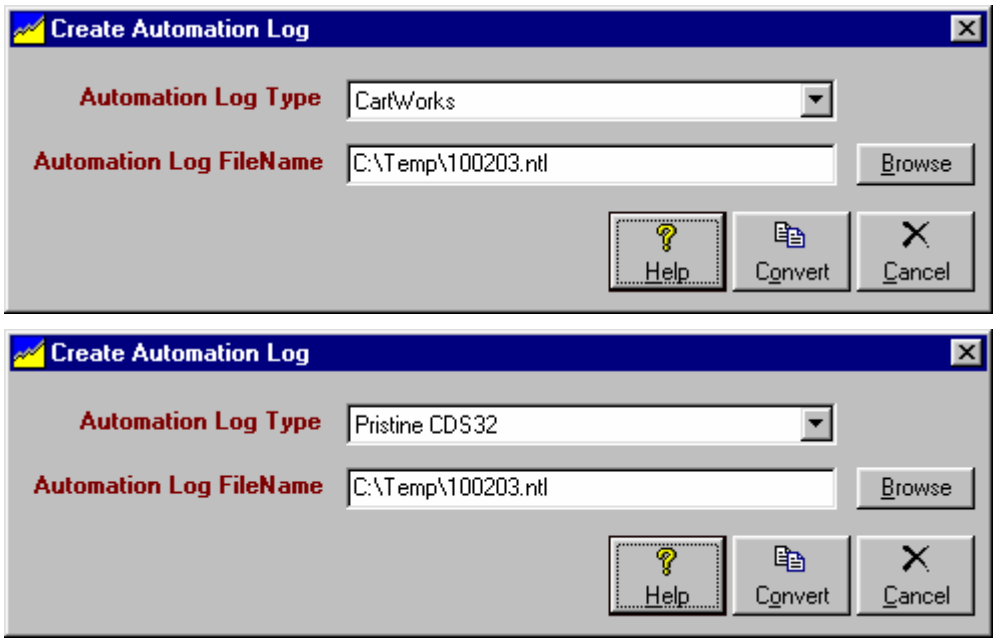
Assume you want to make sure your breaks don't run to late if long Items are scheduled. You can force NL to give a "soft sync" command for a break as follows in the NL Log Format: Note the # forces a "soft sync" in BTSG. At 1010 BTSG will soft sync to the first spot in the break and wait until whatever is playing finishes and then start the break.



10.11 CartWorks™ / Pristine CDS32™ Automation

NL8 converts to a specific CartWorks log format so the 'Generic Text' output log format is not used for these automation system logs. This interface is the same whether you are using CartWorks or Pristine CDS32.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



CartWorks Cut Numbers

CartWorks can use any numeric or alphanumeric cut up to 8 characters to identify its audio cuts. NL8 can handle any valid CartWorks audio cut identifier so all you need to do is enter the CartWorks cut identifier for the particular commercial spot into the "CopyID" field on the NL8 Order Line entry screen.

Log Reconciliation is supported For CartWorks

Natural Log will filter it and read the exact spot runtimes for your affidavits. Copy the unfiltered audit log from the CartWorks onto a floppy disc or to a folder on your LAN, and use the **[Convert-Log] [Reconcile Schedule-Log with Play-Log]** function in the **Log Editor** section of Natural Log, with the day's log loaded into the NL8 Log Editor. You will need to use the [Browse] button to point NL8 to the Play-Log. Natural Log will read the run times and print a discrepancy report.

Ouput & Input Log FileNames

Output (send) file

mmddyr.NTL mm is month, dd is day, yr is year
110295.NTL is Send Log for 11-02-95

Input (reconcile) log file

mult#.LOG where # is day (1=Mon, 7=Sun)

10.11 CartWorks™ / Pristine CDS32™ Automation (cont)

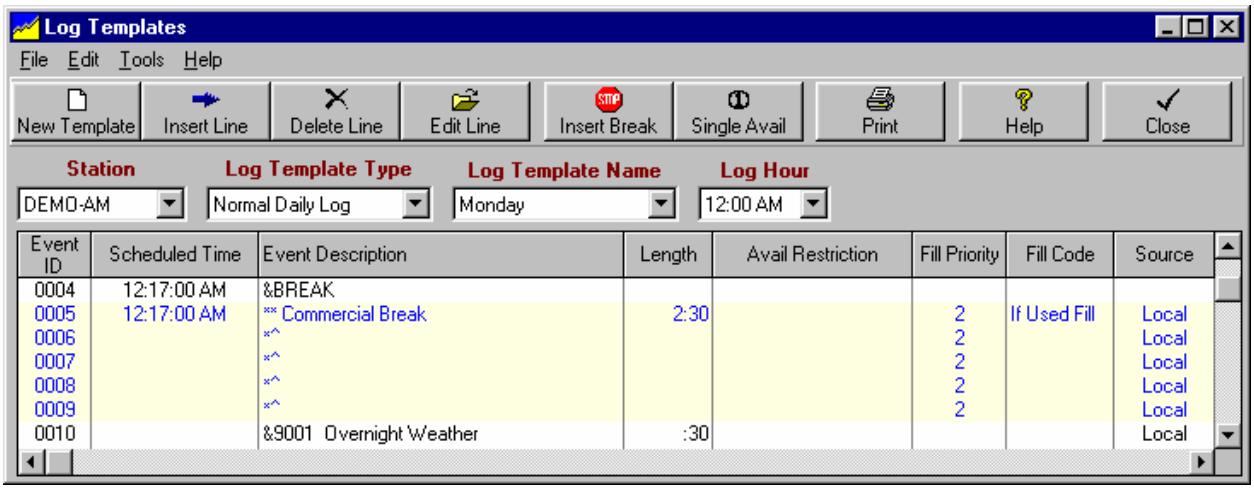
Break Markers Required

The Natural Log system allows you to set up "if used" spot breaks as well as Mandatory spot breaks. Because the spot loading into CartWorks is sequential, something must be sent to CartWorks for **each and every spot break setup in CartWorks**. If a break in NL8 is completely empty, something must be sent to CartWorks to tell it that the break is empty. If not, CartWorks will wait for the next spots to be sent from Natural Log (when Natural Log hits the next spot break) and the spots will be played by CartWorks in place of the empty break not used by Natural Log. The CartWorks will get "out of sync" with Natural Log.

This is prevented by entering the **&BREAK** command immediately before **each spot break in Natural Log**. In the Natural Log Templates, on the line immediately before the start of a spot break, you need to enter an event (at the approximate spot break start time) and use event description **&BREAK**.

Break Marker Example - Event 0004 shown below

If no spots are inserted by Natural Log, the **&BREAK** marker will serve to tell Cartworks that the break is empty so it should be skipped. This is entered in the Natural Log Templates as shown below at event 0004. Event 0004 contains the **&BREAK** marker which will be sent to CartWorks in the event no spots get logged into this commercial break by Natural Log. This must be done before **all** breaks in Natural Log. If the spot break is empty, this **&BREAK** will be transferred by Natural Log as an empty break and CartWorks will skip to the next break. If spots are logged into the break, the **&BREAK** is ignored by the cartworks interface. In this way, the spot break loading sequence can be kept "in sync" between Natural Log and CartWorks.



CartWorks Commands

Commands can be sent to the CartWorks from the Natural Log system. On the Natural Log Templates in the Event Description column, enter **&** and then the command letter/numbers. NL8 will pick up the command or cut name to play by capturing all characters between **&** and the first space in the event description.

Play Non-Commercial Audio Cut Example - Event 0010 shown above

You need to run weather at a certain time each day. If weather is named **9001**, you could make the entry shown at event 0010 above. This would play 2:30 of commercials followed by the weather. NL8 only needs the **&9001** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

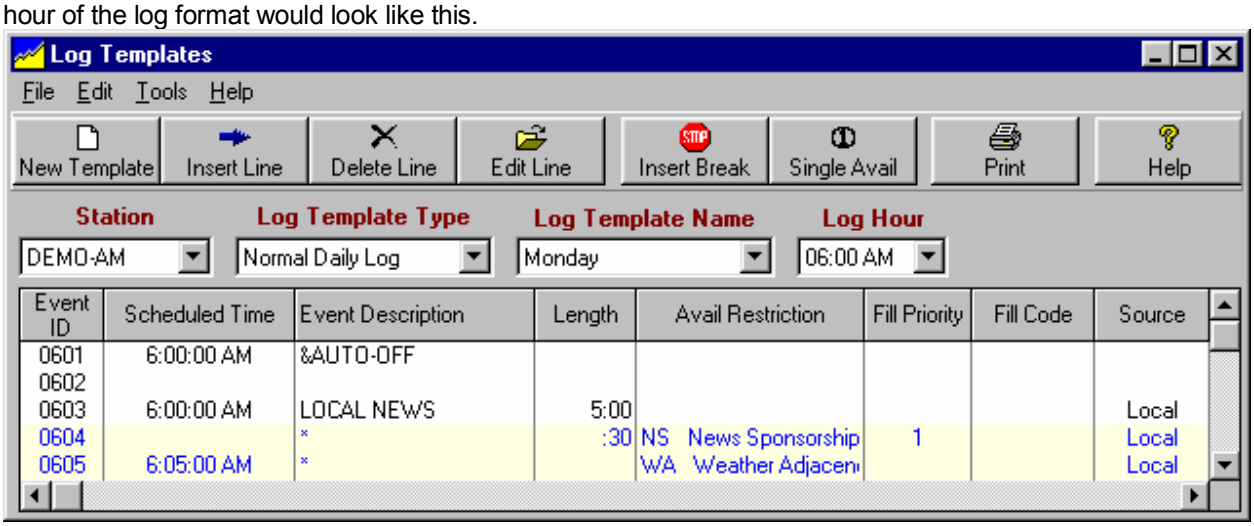
10.11 CartWorks™ / Pristine CDS32™ (cont)

Turning the Automation Conversion On & Off

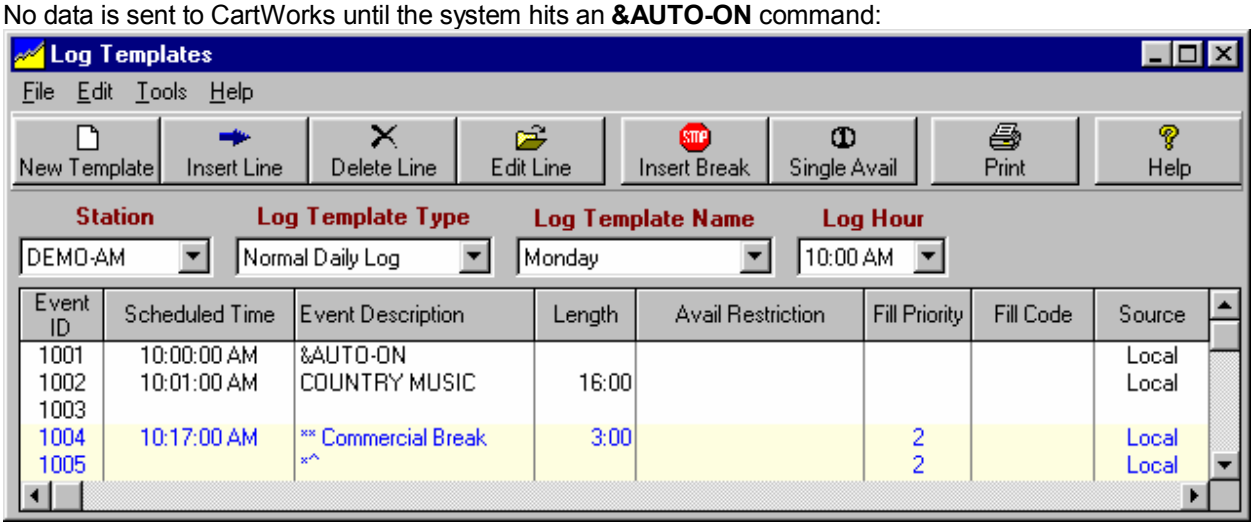
The CartWorks system loads spots sequentially into spot breaks. If you have some hours during which you are "Live" and not using CartWorks, you need a way to tell the Natural Log **not to send spots to CartWorks during that time period**, even though spots are logged for manual play. If you don't do this, the spot loading in CartWorks and Natural Log can be out of sequence.

CartWorks Automation On/Off Example Show Below

Assume you are automated from midnight to 6AM and live from 6-10AM. Then you return to automation for the rest of the day. Natural Log needs to know not to send spot data to CartWorks from 6-10AM. If CartWorks doesn't have spot breaks set up for 6-10AM, CartWorks will load the next spot sent from Natural Log (e.g. 6:05AM) into the next spot break it finds in the CartWorks format setup which may be 10:05AM. Your spots will be out of sequence. This can be prevented in Natural Log by using "AUTO-OFF" and "AUTO-ON" commands. This is done in Natural Log's Templates section. In this example, your first event in the 6AM hour of the log format would look like this.



No data is sent to CartWorks until the system hits an **&AUTO-ON** command:

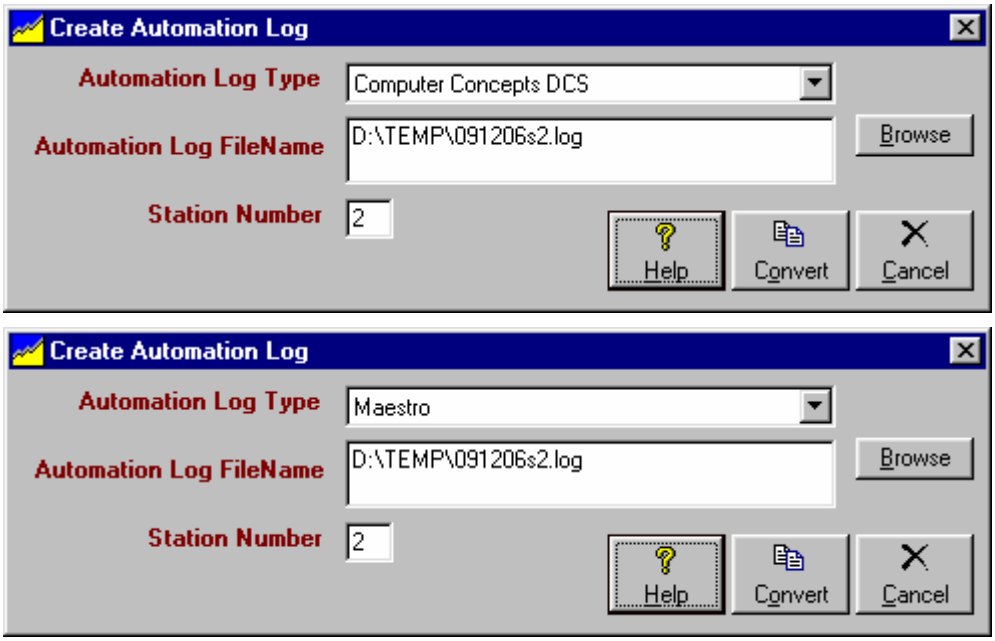


These events must appear exactly as shown including **&** followed immediately by **AUTO-ON** or **AUTO-OFF**.

10.12 Computer Concepts DCS & Maestro™ Automation

NL8 converts to a specific DCS / Maestro log format so the 'Generic Text' output log format is not used for these automation system logs. Any references herein to DCS also apply to Maestro, which uses the same type log interface file to send the log. A different file format is used for reconciliation.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



DCS/Maestro Cut Numbers

Computer Concept's DCS & the Maestro system can use cut numbers from 1 to 999, with a single letter in front to identify the type. All you need to do is enter the DCS / Maestro cut letter and/or numbers into the "CopyID#" field during order entry in NL8.

Log Reconciliation is supported for DCS & Maestro

The Input (read file) is created using DCS's or Maestro's report module to create an "audit DUMP" report named mmddyyS#.RPT on a floppy disc for the day's play log. Natural Log reads this .RPT file. **Do not change the default report settings as this may make the report unusable!** Copy this file onto a floppy disc or to a folder on your LAN, and use the **[Convert-Log] [Reconcile Schedule-Log with Play-Log]** function in the **Log Editor** section of Natural Log, with the day's log loaded into the NL8 Log Editor. You will need to use the [Browse] button to point NL8 to the Play-Log. Natural Log will read the run times and print a discrepancy report.

10.12 Computer Concepts DCS & Maestro™ Automation (cont)

Output & Input Log FileNames

The Natural Log system creates an output file named as the date followed by **S** followed by the station number, a period and LOG. For example, the converted log output for 06-28-94 for station #1 in natural Log would be named

Output (send) log filename

mmddyrS#.log	mm=month##, dd=day, yr=year, station#
110295S1.LOG	Send Log for 11-02-95 station # 1

Input (reconcile log filename

mmddyrS#.rpt	mm=month##, dd=day, yr=year, station#
110295S1.RPT	Read Log for 11-02-95 station #1

The Input (reconcile log file) is created using DCS's or Maestro's report module to create an "audit" or dump report named mmddyyS#.RPT on a floppy disc for the day's play log. Natural Log reads this .RPT file.

DCS/Maestro Commands

DCS/Maestro accepts certain commands (also called directives in DCS). An example might be to load a spotset. (See your DCS manual). These can be entered on your Natural Log system Log Templates as command lines of text. Natural Log will treat these as command lines if you begin the event description with &[?] where ? is your command letter as described below.

- &[D=??] D is a Directive, the ?? means a valid Directive Type:
- &[D=LR] Load **Required** stopset
- &[D=LS] Load **Optional** stopset
- &[D=LP] Load **Play** stopset next [when in satellite mode]
- &[D=LW##] Load Window ##
- &[D=CR##] Close Relay ##
- &[D=XF##] Execute Function ##
- &[P] This indicates that there is a Program Title on this line of the log template. Skip one space after the] and type in the Program Title on the log format.
- &[L] This indicates that there is a Log Note on this line of the log format. Skip one space after the] and type in the Log Note text.
- &[C####] This tells the DCS to play cart number #### at this spot on the log. This is useful for playing things whose location doesn't change on the log like weather, ID's, etc. as part of a stopset.

NOTE: To use **XF##** (Execute Function) or **CR##** (close relay##) or **LW##** (load window ##) functions, use the appropriate code ##.

Remember to include **&[** to indicate to NL8 that this is a command entry, and then close the brackets **]** after the command entry, then you may add a description. **Examples are shown on the following pages**.

10.12 Computer Concepts DCS & Maestro™ Automation (cont)

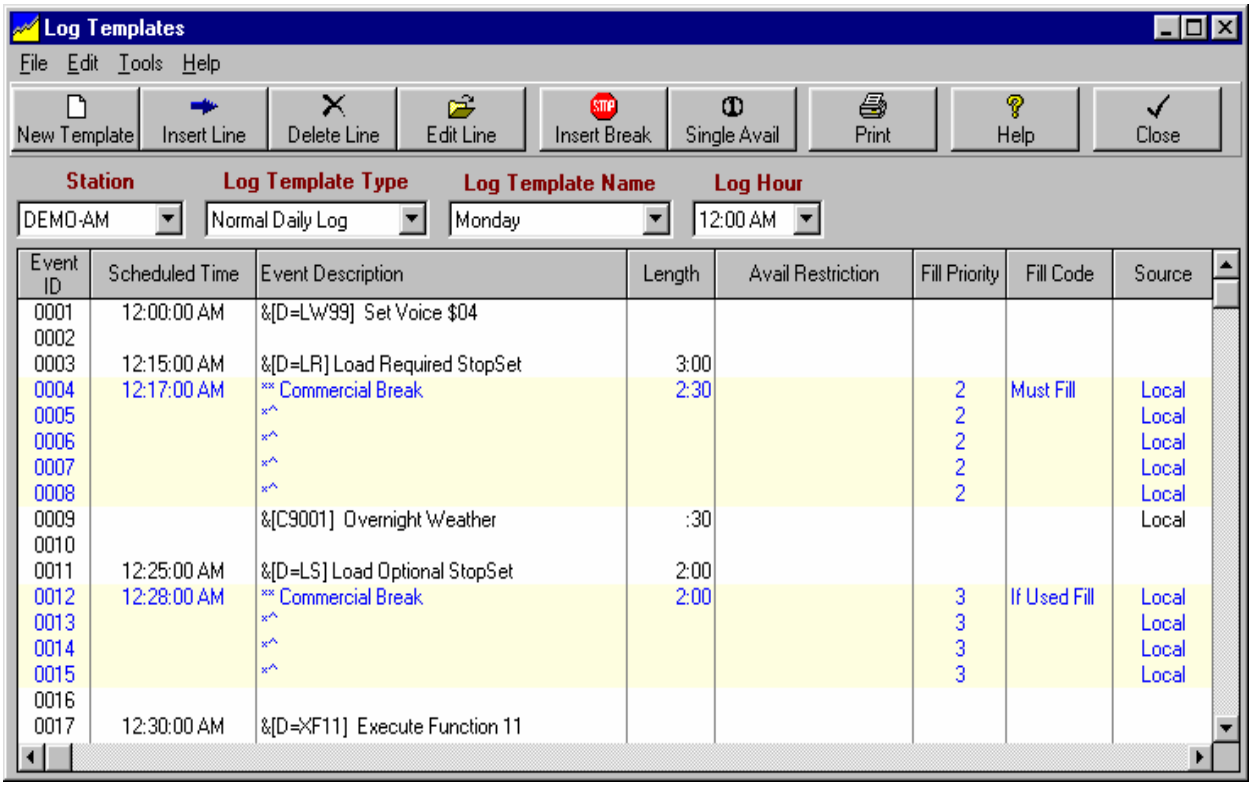
DCS/Maestro Command Examples (cont)

Example of Required Stopset with DCS/Maestro - Event 0003 shown below

Event 0003, **&[D=LR],** tells DCS to load the upcoming 12:17 AM Required stopset at 12:15 AM. This stopset is 3:00 which includes the 2:30 of commercials plus :30 of weather. We inserted the "Load Required StopSet" in the Natural Log Template to make it more readable but this is not required. Natural Log uses the information on events numbered 0004 through 0008 as commercial avails in which it may log a total of 2:30 of commercials. Note that for DCS, this :30 weather is part of the break total of 3:00, but we have told Natural Log that only 2:30 of commercial matter may be loaded. This 2:30 plus the :30 of weather equals the 3:00 break for DCS. **Mandatory** in the FillCode column of the NL log template tells Natural Log that this break must be filled to exact length.

Example Optional Stopset with DCS/Maestro - Event 0011 shown below

Event 0011 tells DCS to load the upcoming 12:28 AM optional stopset at 12:25 AM. If it finds no spots logged in events 0012 through 0015 it would skip the spotset since it is optional. **&[D=LS]** tells DCS to load the next optional spotset. We inserted the text "Load Optional StopSet" in the Natural Log Template to make it readable by humans, this is not required. Natural Log uses the information on events numbered 0012 through 0015 as commercial avails in which it may log a total of 2:00 of commercials. **IF Used Fill** in FillCode column of the NL log template tells Natural Log that this break must be filled to exact length "If-Used", that is, if at least one spot is placed in this break.



Event ID	Scheduled Time	Event Description	Length	Avail Restriction	Fill Priority	Fill Code	Source
0001	12:00:00 AM	&[D=LW99] Set Voice $04					
0002							
0003	12:15:00 AM	&[D=LR] Load Required StopSet	3:00				
0004	12:17:00 AM	** Commercial Break	2:30		2	Must Fill	Local
0005		*^			2		Local
0006		*^			2		Local
0007		*^			2		Local
0008		*^			2		Local
0009		&[C9001] Overnight Weather	:30				Local
0010							
0011	12:25:00 AM	&[D=LS] Load Optional StopSet	2:00				
0012	12:28:00 AM	** Commercial Break	2:00		3	If Used Fill	Local
0013		*^			3		Local
0014		*^			3		Local
0015		*^			3		Local
0016							
0017	12:30:00 AM	&[D=XF11] Execute Function 11					

DCS/Maestro Command Examples (cont)

Example of Play non-commercial audio cut with DCS / Maestro - Event 0009 shown below

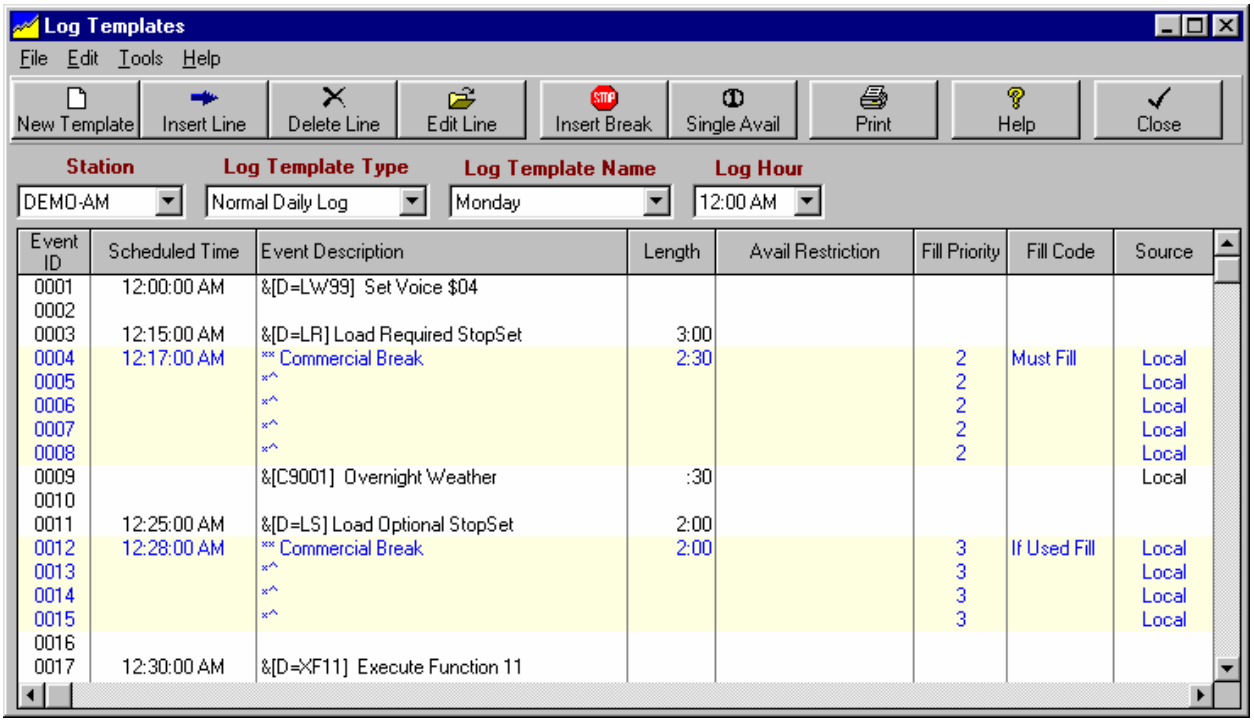
You need to run weather at a certain time each day. If weather is named **9001**, you could make the entry shown below at event 0009 below. This would play 2:30 of commercials followed by the weather. NL8 only needs the **&[C9001]** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3.**

Example of Load Window / Set Voice with DCS/Maestro - Event 0001 shown below

You can do the DCS "Set Voice" function (or any DCS function) by entering the proper codes at the appropriate point on the Natural Log Template setup on shown at event 0001 below. This would set the announce voice to voice 04 at 12:00 AM. Note that the event description must be **&[D=LW99]**, followed by a space, then **Set Voice** followed by a space, then **$** followed immediately by the 2 digit code of the voice to be used. This format must be followed exactly for the DCS system to recognize it. **[D=LW99]** tells the DCS system that this is a voice change directive. **$04** determines which voice ## to use.

Example of Execute Function with DCS/Maestro - Event 0017 shown below

You can send the DCS Execute Function (or any DCS function) by entering the applicable code at the appropriate point on the Natural Log Template setup. As shown on event 0017 below, **&[D=XF11]** tells the system to execute the function, the `Execute Function 11' text is to make this readable by humans.

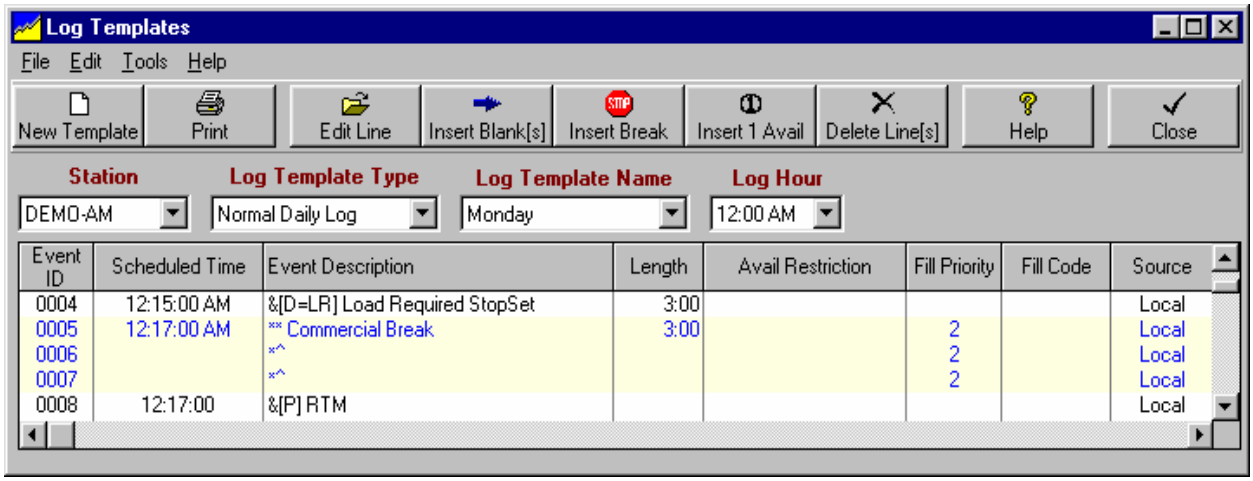


Event ID	Scheduled Time	Event Description	Length	Avail Restriction	Fill Priority	Fill Code	Source
0001	12:00:00 AM	&[D=LW99] Set Voice $04					
0002							
0003	12:15:00 AM	&[D=LR] Load Required StopSet	3:00				
0004	12:17:00 AM	** Commercial Break	2:30		2	Must Fill	Local
0005		*^			2		Local
0006		*^			2		Local
0007		*^			2		Local
0008		*^			2		Local
0009		&[C9001] Overnight Weather	:30				Local
0010							
0011	12:25:00 AM	&[D=LS] Load Optional StopSet	2:00				
0012	12:28:00 AM	** Commercial Break	2:00		3	If Used Fill	Local
0013		*^			3		Local
0014		*^			3		Local
0015		*^			3		Local
0016							
0017	12:30:00 AM	&[D=XF11] Execute Function 11					

10.12 Computer Concepts DCS & Maestro™ Automation (cont)

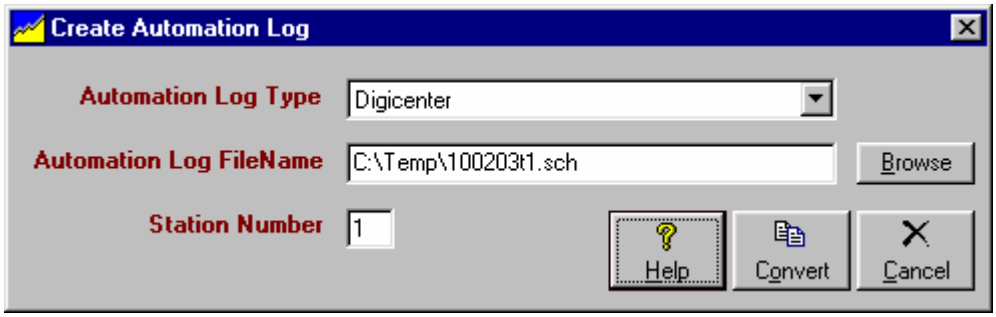
Return to Music Markers

Only if you are running a music format [non-satellite based], you will need to place "Return to Music" markers at the end of each commercial break in the Natural Log template. See your DCS/Maestro LogMerge program help for information on the function of the RTM marker. Placement of the RTM marker is done with a program title. Be sure to put a single blank space between the **]** and the **RTM**.



10.13 ITC DigiCenter Automation

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



DigiCenter Cut Numbers

The Digicenter can use any cut alphanumeric cut numbers/names up to 8 characters. All you need to do is enter the Digicenter cut number for the particular commercial spot into the "CopyID" field (on the Order Line entry screen) in the Natural Log system when entering the orders. Make sure the number in NL8 matches the number in Digicenter.

Log Reconciliation is supported for DigiCenter

The Natural Log does read exact run times from the Digicenter Log Reconciliation File. Copy this file onto a floppy disc or to a folder on your LAN, and use the **[Convert-Log] [Reconcile Schedule-Log with Play-Log]** function in the **Log Editor** section of Natural Log, with the day's log loaded into the NL8 Log Editor. You will need to use the [Browse] button to point NL8 to the Play-Log. Natural Log will read the run times and print a discrepancy report.

Output & Input Log FileNames

Output (send) log file

yrmmddT#.SCH	yr=year, mm=month, dd=day, #=station
951102T#.SCH	is Send Log for 11-02-95 station 1

Input (reconcile) log file

yrmmddT#.LOG	yr=year, mm-month, dd=day, #=station
951102T1.LOG	is Play Log for 11-02-95 station 1

Continued on next page.

10.13 ITC DigiCenter Automation (cont)

DigiCenter Commands

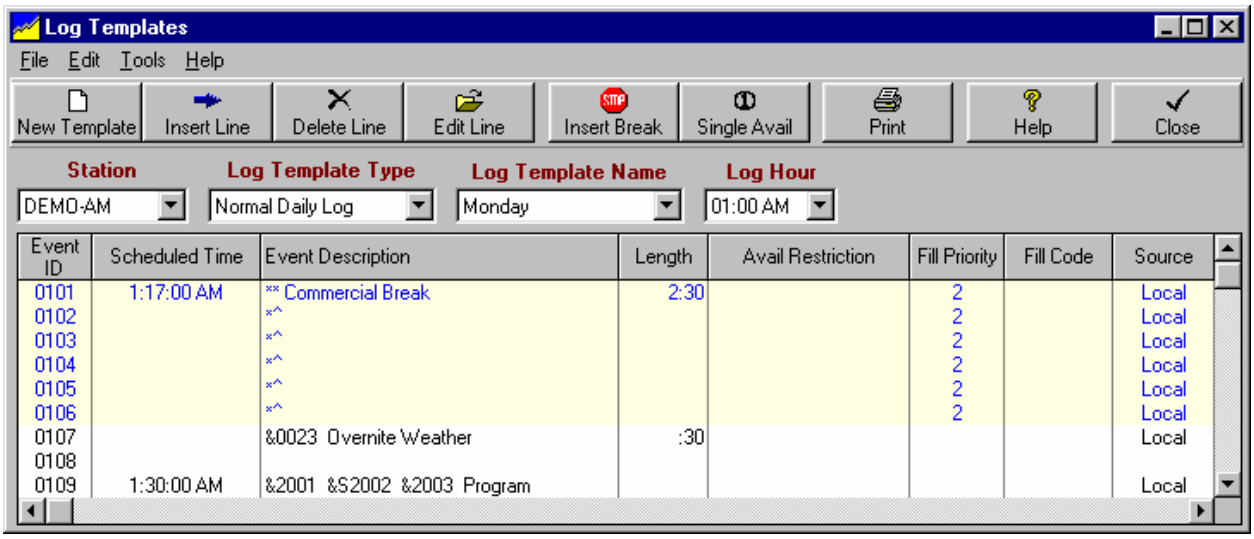
Automation Commands can be sent to the Digicenter (such as source switching) from the Natural Log system. On the Natural Log Templates, simply enter **&** and then the command code letter/numbers in the Event Name. NL8 will pick up the command or cut name to play by capturing all characters between **&** and the first space in the event name.

Play Non-Commercial Audio Cut Example - Event 0107 shown below

You need to run weather at a certain time each day. If weather is named **0023**, you could make the entry shown below at event 0107 below. This would play 2:30 of commercials followed by the weather. NL8 only needs **&0023** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

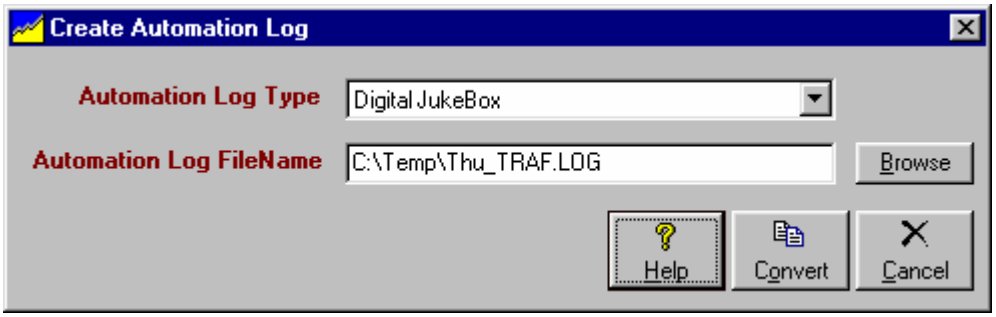
Command Sequence Example - Event 0109 shown below

You may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 2001), then play a program (cut 2002), then play a closer (cut 2003). You could enter each item on a separate line, or you could make the following entry in the Natural Log Templates. Note that a single space is inserted between each command or cut and 'Program' is an optional description.



10.14 Digital JukeBox Automation

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



Digital JukeBox Cut Numbers

The Digital JukeBox system uses 4 digit cart numbers from 1 to 9999 which can be entered directly into Natural Log orders. All you need to do is enter the Digital JukeBox cut number (1 to 9999) for the particular commercial spot into the "CopyID" field in the Natural Log system when entering the order lines. Make sure the number in NL8 exactly matches the number in the Digital JukeBox (including leading 0's if used).

Log Reconciliation is supported for Digital JukeBox

You must obtain the Digital JukeBox "history file" for Natural Log to read the exact spot run times. Copy the play log file for the selected single date onto a floppy disc or to a folder on your LAN, and use the **[Convert-Log] [Reconcile Schedule-Log with Play-Log]** function in the **Log Editor** section of Natural Log, with the day's log loaded into the NL8 Log Editor. You will need to use the [Browse] button to point NL8 to the Play-Log. Natural Log will read the run times and print a discrepancy report.

Output & Input Log FileNames

Output (send) log file

ddd_TRAF.LOG	ddd=Day of week (MON, TUE, WED...)
MON_TRAF.LOG	is Send Log (spots) for Monday

Input (reconcile log file

History - mmddyyyy.TXT where mm=Month, dd=Day, yyyy=Year
History - 11021995.TXT is play log for Nov 2, 1995

Note: Older DOS versions of Digital JukeBox used the following file NOT supported by NL8:

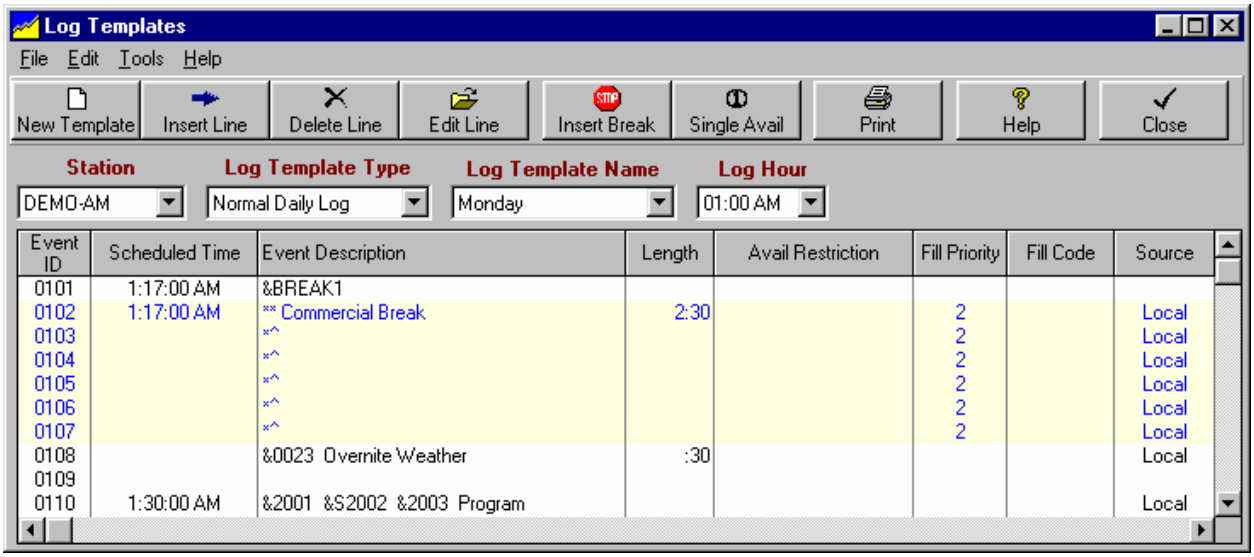
Zmmddyy.HIS	where mm=Month, dd=Day, yy=Year

Continued on next page.

10.14 Digital JukeBox Automation (cont)

Digital JukeBox Break Numbers

The Digital JukeBox works with individual breaks numbered beginning with **BREAK1** in each hour, in which you can insert spots. Natural Log allows you to set up only those breaks you want to use in the Natural Log Templates. You need a way to identify the Digital JukeBox "Break numbers" into which the spots are to be inserted when the log conversion is done. Therefore, immediately before each "Commercial Break" on the Natural Log Template, you need to give it a Digital JukeBox "Break number". Within each hour you can have breaks numbered from 1 to 10. See event 0101 below. The break number must precede every break in the NL8 log templates.



Event ID	Scheduled Time	Event Description	Length	Avail Restriction	Fill Priority	Fill Code	Source
0101	1:17:00 AM	&BREAK1					
0102	1:17:00 AM	** Commercial Break	2:30		2		Local
0103		*^			2		Local
0104		*^			2		Local
0105		*^			2		Local
0106		*^			2		Local
0107		*^			2		Local
0108		&0023 Overnite Weather	:30				Local
0109							
0110	1:30:00 AM	&2001 &S2002 &2003 Program					Local

Digital JukeBox Commands

Commands can be sent to the automation (such as source switching if available in the automation). On the Natural Log Templates, simply enter **&** and then the command code letter/numbers in the Event Name. **When used with &, you may enter any combination of letters and numbers UNLESS Digital JukeBox has a restriction.** NL8 will pick up the command or cut name/number to play by capturing all characters between **&** and the first space in the event name.

Play Non-Commercial AudioCut Example - Event 0108 shown above

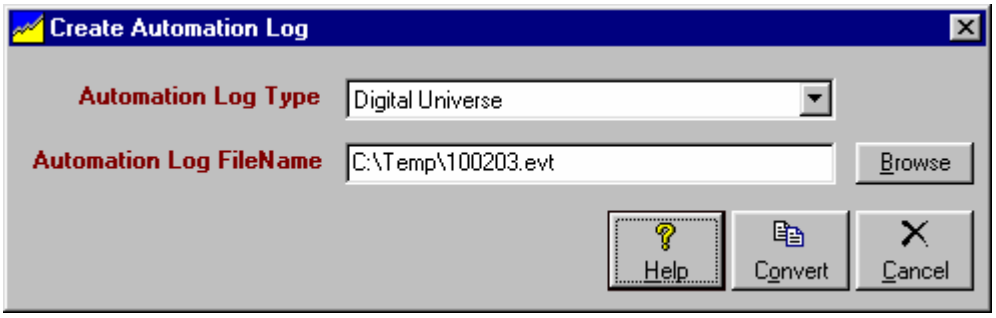
You need to run weather at a certain time each day. If weather is named **0023**, you could make the entry shown at event 0108 above. This would play 2:30 of commercials followed by the weather. NL8 only needs **&0023** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

Command Sequence Example - Event 0110 shown above

You may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 2001), then play a program (cut 2002), then play a closer (cut 2003). You could enter each item on a separate line, or you could make the entry shown above at event 0110 in the Natural Log Templates. Note that a single space is inserted between each command or cut and 'Program' is an optional description.

10.15 Digital Universe Automation

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



Digital Universe Cut Numbers

The DU system uses audio cut numbers from 1 to 9999 which complies with the CopyID limits in NL8. Enter the Digital Universe cut number (including any leading 0's) into the NL8 "CopyID" field during order line entry.

Log Reconciliation is supported for Digital Universe

You must obtain the Digital Universe "Air Log for CBSI" for Natural Log to read the exact spot run times. Copy the Air Log file for the selected single date onto a floppy disc or to a folder on your LAN, and use the **[Convert-Log] [Reconcile Schedule-Log with Play-Log]** function in the **Log Editor** section of Natural Log, with the day's log loaded into the NL8 Log Editor. You will need to use the [Browse] button to point NL8 to the Air Log. Natural Log will read the run times and print a discrepancy report.

Output & Input Log FileNames

Output (send) log file:

mmddyy.evt	where mm=month, dd=day, yy=year
110295.evt	is the Log for 11-02-95
or	
ddd.evt	where ddd is 3 letter day of week
WED.evt	is the log for Wednesday

Reconcile (read log file:

ssyymmdd.###	where ss=station#, yy=year, mm=month, dd=day
02951102.201	11-02-95 for station 2 from computer201

Digital Universe Break Markers

The Digital Universe log import/merge program needs a marker to know where each new break begins. This is done in the NL log formats as follows and is mandatory. Assume you want to have a break at :17 after and :28 after the hour. You would make this entry in the Natural Log Templates.

10.15 Digital Universe Automation (cont)

Digital Universe Break Markers

The Digital Universe log import/merge program needs a marker to know where each new break begins. This is done in the NL log formats as follows and is mandatory. Assume you want to have a break at :17 after and :28 after the hour. You would make this entry in the Natural Log Templates.

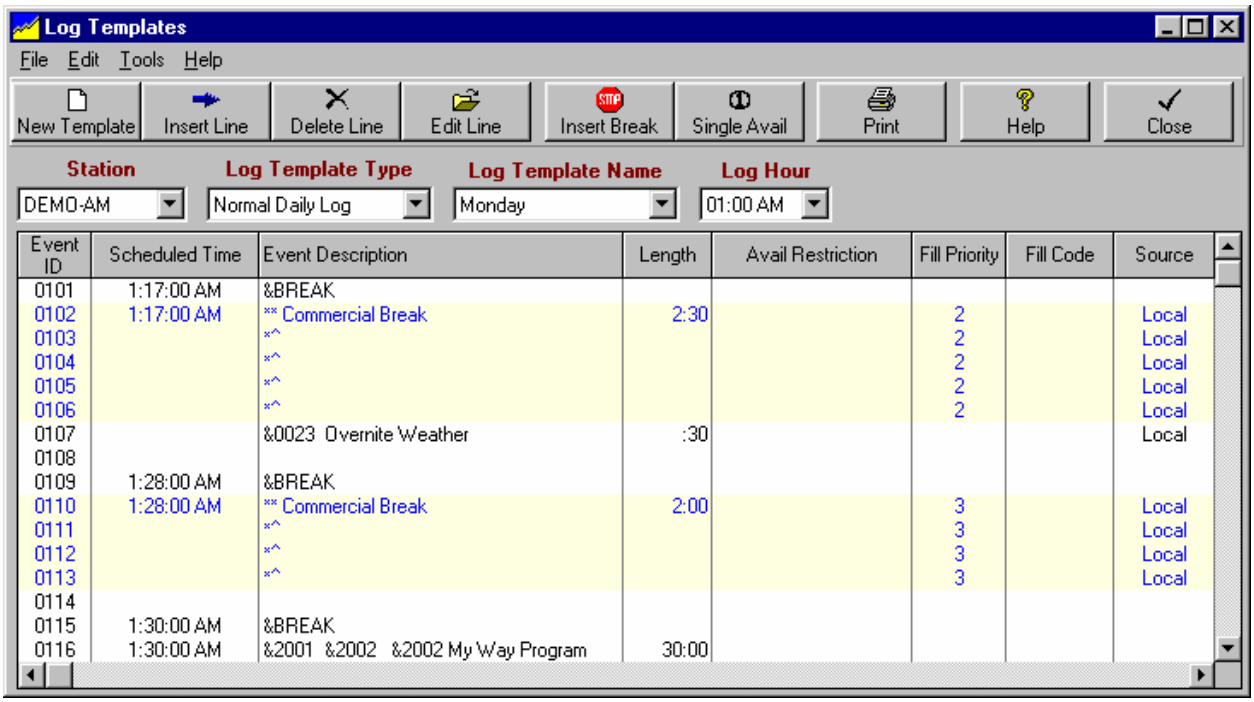
Digital Universe Commands

Play Non-Commercial AudioCut Example - Event 0107 shown below

You need to run weather at a certain time each day. If weather is named **0023**, you could make the entry shown below at event 0107 below. This would play 2:30 of commercials followed by the weather. NL8 only needs **&0023** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

Command Sequence Example - Event 0116 shown below

You may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 2001), then play a program (cut 2002), then play a closer (cut 2003). You could enter each item on a separate line, or you could make the entry shown below at event 0116 in the Natural Log Templates. Note that a single space is inserted between each command or cut and 'My Way Program' is an optional description.



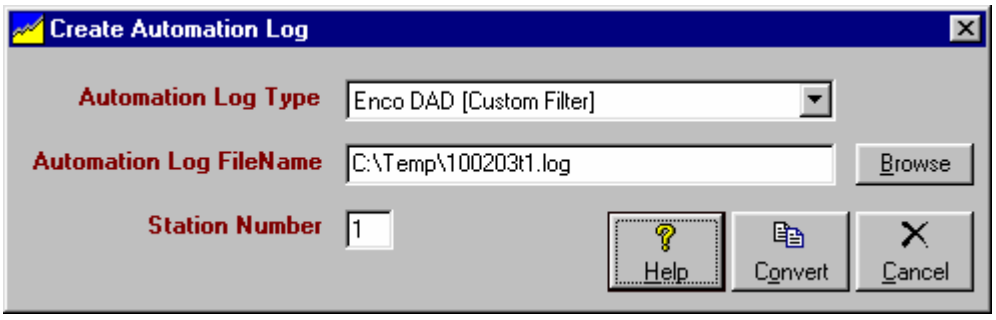
Event ID	Scheduled Time	Event Description	Length	Avail Restriction	Fill Priority	Fill Code	Source
0101	1:17:00 AM	&BREAK					
0102	1:17:00 AM	** Commercial Break	2:30		2		Local
0103		*^			2		Local
0104		*^			2		Local
0105		*^			2		Local
0106		*^			2		Local
0107		&0023 Overnite Weather	:30				Local
0108							
0109	1:28:00 AM	&BREAK					
0110	1:28:00 AM	** Commercial Break	2:00		3		Local
0111		*^			3		Local
0112		*^			3		Local
0113		*^			3		Local
0114							
0115	1:30:00 AM	&BREAK					
0116	1:30:00 AM	&2001 &2002 &2002 My Way Program	30:00				

Note: **&BREAK** must occur on the line immediately before each commercial break to indicate to Digital Universe that a new break starts there.

10.16 Enco DAD™ Automation [Custom Filter]

> **NOTE:** The Enco DAD system have its own "filter/merger" module which reads an ASCII file containing the commercial log into the Enco system. This import filter must be purchased from Enco. The Log sent by NL8 to Enco's filter/merger uses a version of the 'Generic Text [NL-DOS format]' log output file. See Enco DAD Automation Log Format for a description of the file. Use this File Format to have Enco personnel configure their filter module to read this file. Alternatively, you may send one of the automation log files to Enco so they configure the reader.
>
> Users of Enco DADPro32 released after January 2003 can use the built-in Enco DADPro32 ASCII Flat File importer and not have to buy an Enco Custom Filter.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



Enco DAD Cut Numbers

The Enco DAD system uses 1 to 5 digit cut numbers from 1 to 99999 which can be entered directly into Natural Log orders. All you need to do is enter the Enco DAD cut number for the particular commercial spot into the "CopyID" field in the Natural Log system when entering the order lines. Make sure the number in NL8 exactly matches the number in the Enco DAD (including leading 0's if used).

Log Reconciliation is supported for Enco DAD

You must obtain the Enco DAD PlayLog for Natural Log to read the exact spot run times. Copy the play log file for the selected single date onto a floppy disc or to a folder on your LAN, and use the **[Convert-Log] [Reconcile Schedule-Log with Play-Log]** function in the **Log Editor** section of Natural Log, with the day's log loaded into the NL8 Log Editor. You will need to use the [Browse] button to point NL8 to the Play-Log. Natural Log will read the run times and print a discrepancy report.

Output & Input Log FileNames

Output (send) log file

mmddyrT#.LOG	mm is month, dd is day, yr is year
110295T1.LOG	is Send Log 11-02-95 for station1

Input (reconcile) log file

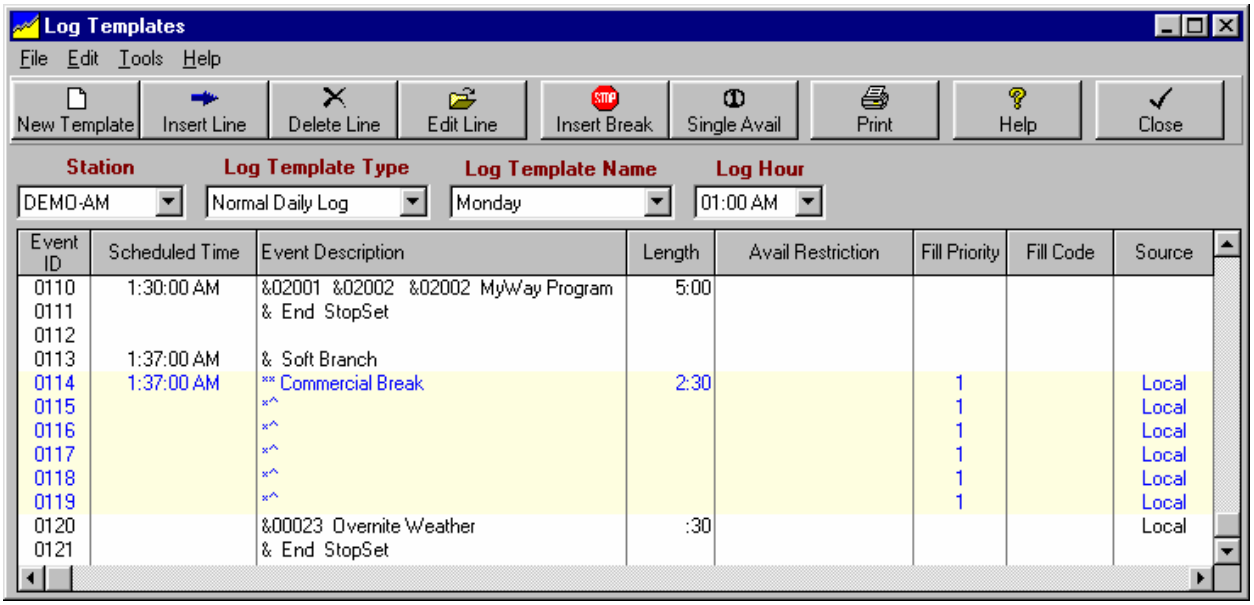
OAmmddyr.DBF	mm is month, dd is day, yr is year
OA110295T1.DBF	is Read Log for 11-02-95

10.16 Enco DAD™ Automation [Custom Filter]

(cont)

End of Stopset Markers Required

Every stopset in NL8 must have an **End Stopset** marker for proper importing into the Enco System and merging with a music log. In the event description column of the NL8 log template, place an **&** followed by a single space then the word END, another space, and the word STOPSET. This must appear last in each commercial break in Natural Log Templates as shown in event 0121 shown below.



Event ID	Scheduled Time	Event Description	Length	Avail Restriction	Fill Priority	Fill Code	Source
0110	1:30:00 AM	&02001 &02002 &02002 MyWay Program	5:00				
0111		& End StopSet					
0112							
0113	1:37:00 AM	& Soft Branch					
0114	1:37:00 AM	** Commercial Break	2:30		1		Local
0115		*^			1		Local
0116		*^			1		Local
0117		*^			1		Local
0118		*^			1		Local
0119		*^			1		Local
0120		&00023 Overnite Weather	:30				Local
0121		& End StopSet					

Automation Commands

Commands can be sent to the automation (such as to execute a command or play an audio cut) from the Natural Log system. On the Natural Log Templates, simply enter **&** and then the command text letter/numbers in the Event Description column.

Play Non-Commercial AudioCut Example - Event 0120 shown above

You need to run weather at a certain time each day. If weather is named **00023**, you could make the entry shown below at event 0120 above. This would play 2:30 of commercials followed by the weather. NL8 only needs **&00023** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

Cut Sequence Example - Event 0110 shown above

You may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 02001), then play a program (cut 02002), then play a closer (cut 02003). You could enter each item on a separate line, or you could make the entry shown above at event 0110 in the Natural Log Templates. Note that a single space is inserted between each command or cut and 'MyWay Program' is an optional description.

Command Example - Event 0113 shown above

Assume you want to do a "Soft Branch". This can be entered in NL log templates as shown on event 0113 above. For all Enco commands, just enter **&** followed by a space, then the command text.

Telling Enco How to Start an Event

The Enco DAD system uses start codes to indicate how an event is to start. These start codes are:

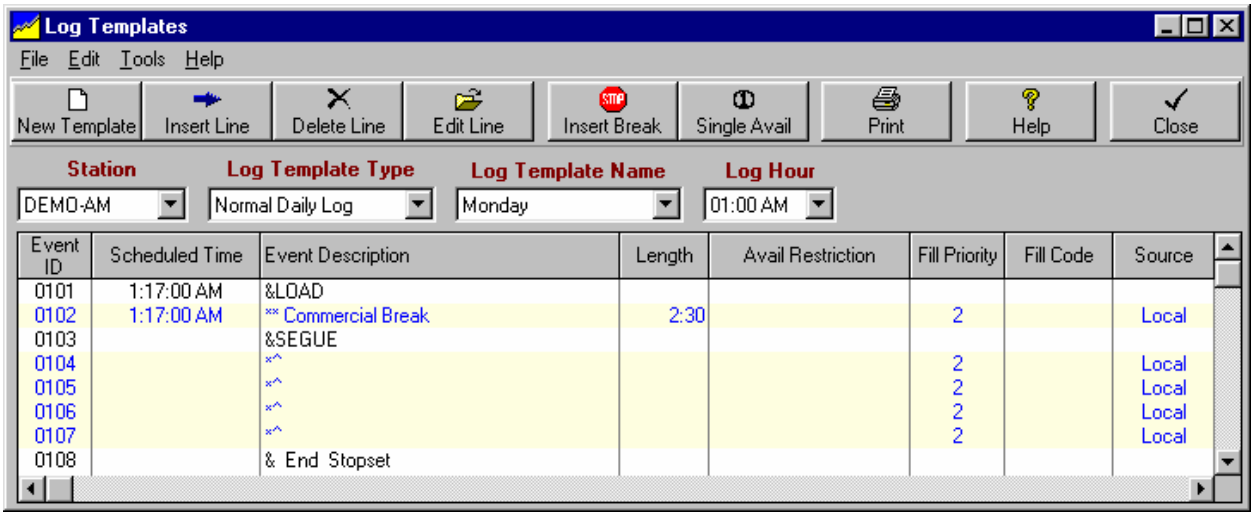
In Enco	NL8 Log template Event Description
❑ SEGUE	&Segue
❑ AUTOLOAD	&Load
❑ AUTOPLAY	&AutoPlay
❑ NORMAL	&Normal

(See the Enco DAD manual for descriptions). The codes are set in the Natural Log Template Event Description column as &SEGUE, &LOAD, &AUTOPLAY, and &NORMAL. The default start code assumed by Natural Log is **Segue** in the absence of any other code entry.

Once the start code is set, Natural Log continues to send the start code on all subsequent events until enter another start code in the NL8 Log Templates.

Manual Start Example - Events 0101 and 0103 shown below

You need to load a spot break but wait for a live announcer to start it. This will LOAD the first spot and wait for the announcer (or satellite network) to start it. Because the &SEGUE is after the first spot in the break, it will then segue through the break until it hits the End StopSet marker.



10.16 Enco DAD™ Automation [Custom Filter]
(cont)

NOTE: The Enco DAD system have its own "filter/merger" module which reads an ASCII file containing the commercial log into the Enco system. This import filter must be purchased from Enco. The Log sent by NL8 to Enco's filter/merger uses a version of the 'Generic Text [NL-DOS format]' log output file. See Enco DAD Automation Log Format for a description of the file. Use this File Format to have Enco personnel configure their filter module to read this file. Alternatively, you may send one of the automation log files to Enco so they configure the reader.

Users of Enco DADPro32 released after January 2003 can use the built-in Enco DADPro32 ASCII Flat File importer and not have to buy an Enco Custom Filter.

Enco DAD™ [Custom Filter] Automation Log File Format

Please call Natural Software with any questions about this file format. The file is straight ASCII with no page breaks, no formfeeds, no headers, and no graphics. Each line is 78 characters log **plus** a Carriage Return/Line Feed (total 80 characters per record).

The file name is: **mmddyrT#.LOG**

where:
mm = Month ## (05 for May)
dd = Day ## (01 for the first)
yr = Year ## (95 for 1995, 01 for 2001)
T = traffic schedule (M is for Music schedule)
# = NL8 station number

Example: 050195T1.LOG is Traffic log for 05-01-95 for station 1.

COLUMN	LENGTH	FIELD IDENTIFICATION
1	3	Scheduled Hour (##:)
4	3	Scheduled Minute (##:)
7	2	Scheduled Second (##)
10	8	Cart number (filename to play, left justified)
19	1	Start Code (**S**egue, **L**oad, **A**utoplay, **N**ormal)
20	24	Event description (sponsor name,etc)
45	4	Length in seconds (#### left padded zeroes)
50	3	Played Hour (##:)
53	3	Played Minute (##:)
56	2	Played Second (##)
59	16	Reserved
75	4	Natural Log event pointer for reconciliation
79	2	Carriage Return / Line Feed

Note: The fields labeled Played-Hour, Played-Minute, and Played-Second are left blank by Natural Log, but may be used by automation to return actual run times to Natural Log.

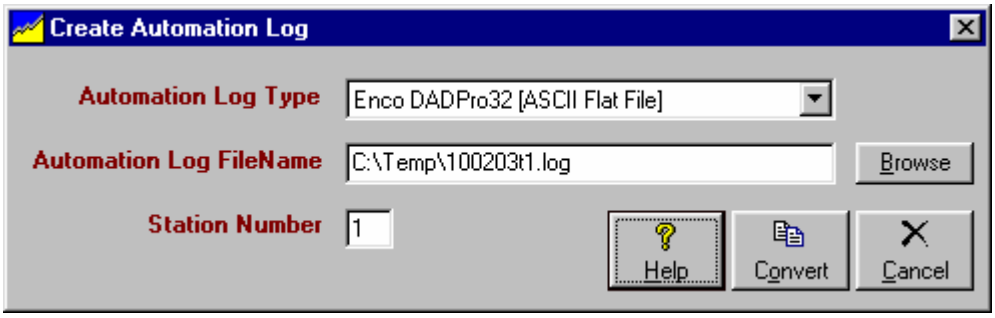
10.17 Enco DADPro32™ Automation
[ASCII Flat-File]

Users of Enco DADPro32 released after January 2003 have the ability to import an "ASCII Flat File" from Natural Log that does not require the purchase of a custom filter from Enco. NL8 creates a text file that can be imported using Enco's "ASCII Flat File" import as described in section 5.16 of the Enco DADPro32 manual

Note: Effective with version 8.0.198 of Natural Log, the **"Multi-Library" version of Enco DADPro** is supported. There is a completely separate output log from Natural Log for this purpose labeled as "Enco DAD MULTI-LIBRARY".

Users of older versions of EncoDAD must buy the custom filter from Enco and see Interfacing to Enco:DAD Automation Using Custom Filter.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



Enco DADPro32 Cut Numbers

The Enco DADPro32 system uses 1 to 5 digit cut numbers from 1 to 99999 which can be entered directly into Natural Log orders. All you need to do is enter the Enco DADPro32 cut number for the particular commercial spot into the "CopyID" field in the Natural Log system when entering the order lines. Make sure the number in NL8 exactly matches the number in the Enco DADPro32 (including leading 0's if used).

NOTE for users of EncoDADPro32 "Multi-Library" option only: For audio cuts scheduled from Natural Log you need to specify the "Library Location and Name" for each cut. You do this by entering the NL8 "CopyID" as LibLocation:LibName-#####. For example if the cut comes from library on drive "E:" named "CUTS" you'd enter "E:CUTS-" followed by the 5-digit cut number. This only applies if you are using "Multiple-Libraries" in Enco DAD.

Log Reconciliation is supported for Enco DADPro32

You must obtain the Enco DADPro32 PlayLog for Natural Log to read the exact spot run times. Copy the play log file for the selected single date onto a floppy disc or to a folder on your LAN, and use the **[Convert-Log] [Reconcile Schedule-Log with Play-Log]** function in the **Log Editor** section of Natural Log, with the day's log loaded into the NL8 Log Editor. You will need to use the [Browse] button to point NL8 to the Play-Log. Natural Log will read the run times and print a discrepancy report.

10.17 Enco DADPro32™ [ASCII Flat-File] (cont)

Output & Input Log FileNames

Output (send) log file

mmddyrT#.LOG mm is month, dd is day, yr is year
110295T1.LOG is Send Log 11-02-95 for station1

Input (reconcile) log file

OAmmddyr.DBF mm is month, dd is day, yr is year
OA110295T1.DBF is Read Log for 11-02-95

Telling Enco How to Start an Event

The Enco DAD system uses start codes to indicate how an event is to start. These start codes are:

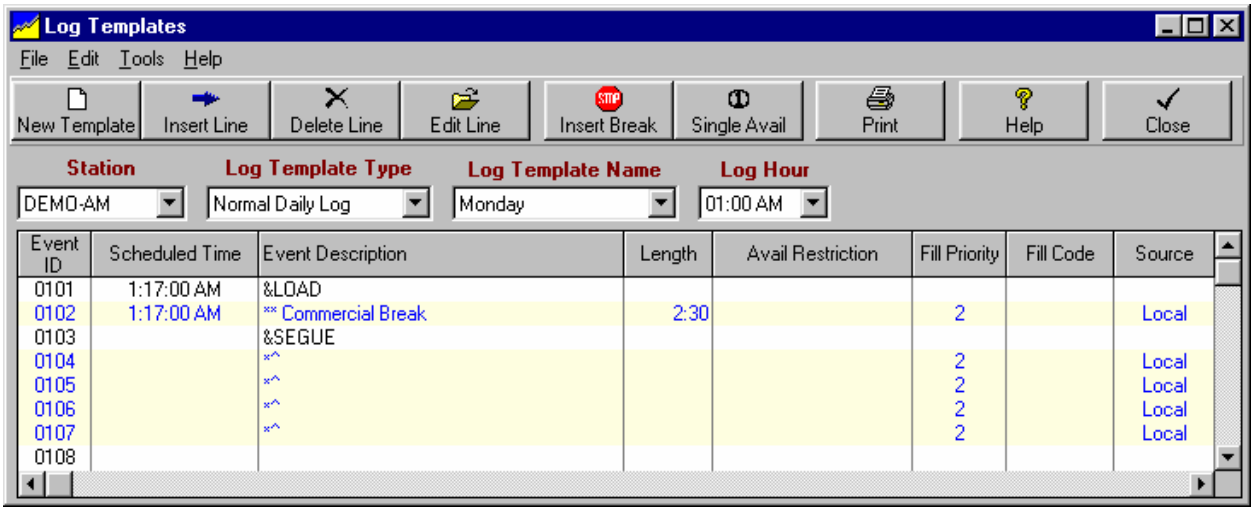
In Enco	NL8 Log template Event Description
❑ SEGUE	&Segue
❑ AUTOLOAD	&Load
❑ AUTOPLAY	&AutoPlay
❑ NORMAL	&Normal

(See the Enco DAD manual for descriptions). The codes are set in the Natural Log Template Event Description column as &SEGUE, &LOAD, &AUTOPLAY, and &NORMAL. The default start code assumed by Natural Log is **Segue** in the absence of any other code entry.

Once the start code is set, Natural Log continues to send the start code on all subsequent events until enter another start code in the NL8 Log Templates.

Manual Start Example - Events 0101 and 0103 shown below

You need to load a spot break but wait for a live announcer to start it. This will LOAD the first spot and wait for the announcer (or satellite network) to start it. Because the &SEGUE is after the first spot in the break, it will then segue through the break.



Special Enco DADPro32 Commands

Sometimes you may need to send other commands to DADPro32. This is accomplished using the "Event Name" column of the NL8 Log Templates. These items are defined in the Enco DADPro32 manual so they are not redefined here. Be must put one space between the right bracket **]** and the required text description.

Transition Codes:

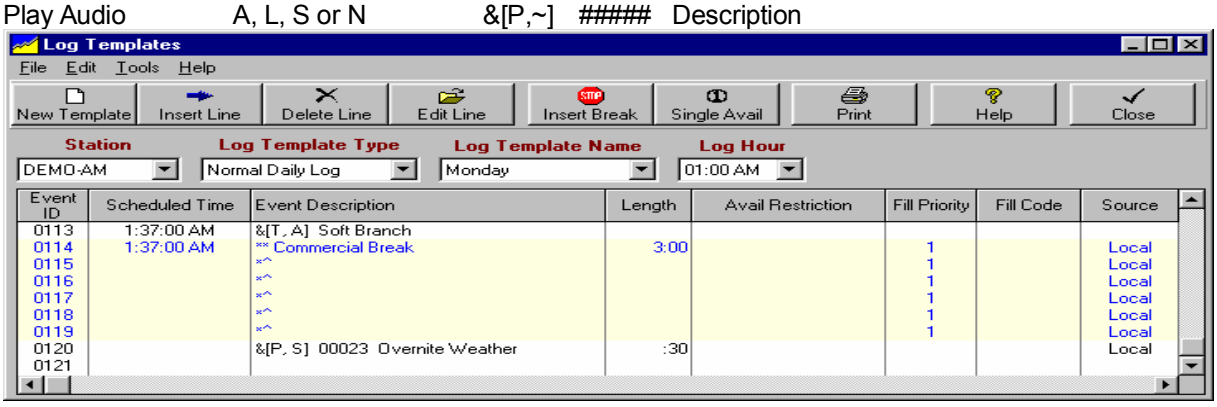
S = Segue **A** = AutoPlay **L** = AutoLoad **N** = Normal

Enco Command	Permitted Transition Codes	NM5 Clock Text replace ~ with Transition Code
Hard Branch	A or L	&[T,~] Hard Branch
Hard Branch Fwd	A or L	&[T,~] Hard Branch Fwd Only
Soft Branch	A or L	&[T,~] Soft Branch
Soft Branch Fwd	A or L	&[T,~] Soft Branch Fwd Only
Backtime Branch Start	A	&[T,~] Btime Branch Start
Backtime Branch End	A	&[T,~] Btime Branch End
Chain	A, L or S	&[H,~] Name of Playlist
SmartChain + 1 Day	A, L or S	&[H,~]+1 SmartChain Playlist name
SmartChain + 2 Days	A, L or S	&[H,~]+2 SmartChain Playlist name
Execute Event	A or L	&[E,~] DCL Command
Delay Event	A or L	&[D,~] #### seconds
Rotate Event	A, L or S	&[R,~] Auxiliary PlayList Name
Playlist Event	A, L or S	&[L,~] PlayList Name
TAMS Event	A, L or S	&[A,~] TAMS Style
Timed Event	A or L	&[T,~] Timed Event
Backtime Marker		&[B] Backtime Marker
AutoFill Start Event Length		&[F] AutoFill Start #### seconds
AutoFill Start Event to Time		&[F] AutoFill Start TARGET
AutoFill End Event		&[F] AutoFill End
Comment		&[C] Any comment text up to 35 characters

To play a specific audio cut put the cut number in place of ##### below. You may optionally put a single space after the cut number and then a description of the event to make it easier to read the NL8 Log Templates. **Do not use this to schedule billable spots with are scheduled from broadcast orders [See chapter 3].**

NOTE EncoDADPro32 "Multi-Library" option ONLY: You must enter cuts as Drive:LibraryName-####. Example if cut ##### is played from the CUTS library on Drive E enter it as E:CUTS-#####

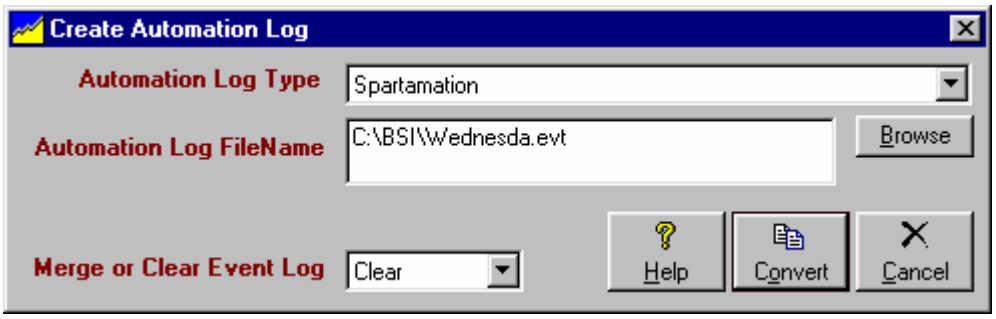
Command	Transition Code	Log Template Event Description replace ~ with Transition Code
Play Audio	A, L, S or N	&[P,~] ##### Description



10.18 Spartamation Automation
[formerly EZ-Broadcaster™/ EZ-2000™ Automation]

There are automation system versions covered by this section: **Spartamation**, **EZ-Broadcaster** and **EZ-2000**. The only difference is in the cut numbering system and log filenames as described below. All other references herein to Spartamation, also apply to EZ-Broadcaster and EZ-2000 unless otherwise noted. You must select the correct type in NL8 because the log files are not interchangeable between these 3 systems!

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



Spartamation Cut Numbers

Spartmataion and EZ-2000 use 7 alphanumeric characters to identify audio cuts. All you need to do is enter the Spartamation or EZ-2000 cut ID for the particular commercial spot into the "CopyID" field in the Natural Log system when entering the order lines. Make sure the number in our system matches the number in EZ Broadcaster/EZ-2000 system. [NOTE: The EZ Broadcaster Automation system uses 4 digit cart numbers from 1 to 9998 which can be entered directly into Natural Log orders. **(Spot 9999 is used as an "empty" spot marker)**.]

Merging NL8 log into Spartamation or EZ Automation Event Logs

The EZ Broadcaster Automation system uses an event log into which both music and traffic can be merged. You must choose to CLEAR or MERGE NL8 into the EZ event log.

CLEAR If you are not using a music scheduler, we recommend you select **CLEAR** in the NL8 log conversion window. This will create a new completely blank event log into which the NL8 log data will be inserted.

MERGE If you are using a music scheduler, we recommend you select **MERGE** in the NL8 log conversion window. This will only replace those breaks into which NL8 puts commercial content and NOT clear those breaks that have music loaded from a separate music scheduler.

Log Reconciliation is supported for Spartamation / EZ & EZ-2000

Copy the play log file for the selected single date onto a floppy disc or to a folder on your LAN, and use the **[Convert-Log] [Reconcile Schedule-Log with Play-Log]** function in the **Log Editor** section of Natural Log, with the day's log loaded into the NL8 Log Editor. You will need to use the [Browse] button to point NL8 to the Play-Log. Natural Log will read the run times and print a discrepancy report.

10.18 Spartamation Automation [cont]

[formerly EZ-Broadcaster™/ EZ-2000™ Automation]

Output & Input Log FileNames

Output (send) log file for EZ-Broadcaster

ddd.SPT	ddd=Day of week (MON, TUE, WED...)
MON.SPT	is Send Log (spots) for Monday

Output (send) log file for Spartmation and EZ-2000

ddd.EVT	ddd=Day of week (MON, TUE, WED...)
MON.EVT	is Send Log (spots) for Monday

Input (reconcile) log file for Spartmation / EZ-Broadcaster / EZ-2000

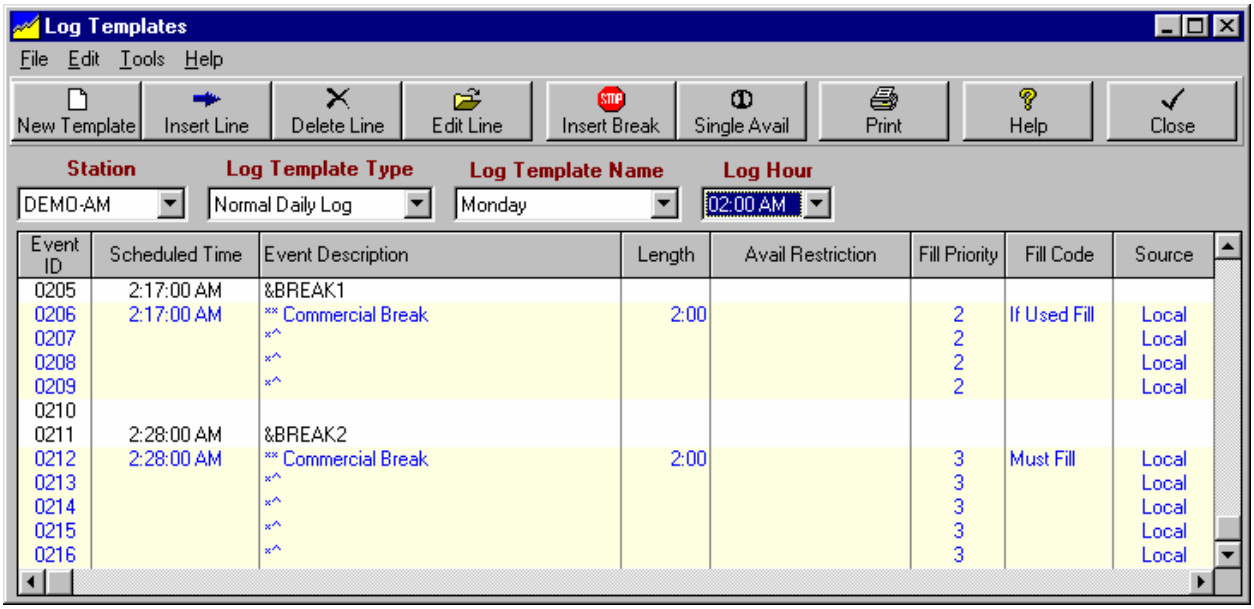
mm-dd-yy.TXT	mm=Month dd=Day yy=Year
02-22-03.TXT	is the "Aired" log for Feb 22 2003

Spartamation / EZ-Broadcster / EZ-2000 Break Numbers

The Spartamation / EZ Broadcaster / EZ-2000 systems all work with 10 breaks per hour into which you can insert up to 10 spots each. Natural Log allows you to set up only those breaks you want to use in the Natural Log Templates. You need a way to identify the Spartamation / EZ Broadcaster / EZ-2000 "Break numbers" into which the spots are to be inserted when the log conversion is done. Therefore, immediately before each "Commercial Break" on the Natural Log Template, you need to give it an Spartamation / EZ Broadcaster / EZ-2000 "Break number". Within each hour you can have breaks numbered from 1 to 10.

Spartamation / EZ-Broadcaster / EZ-2000 Break Number Example - Events 0205 & 0211 shown below

The event description **BREAK1** tells Natural Log to insert any spots in the following avails into break #1 of the 2AM hour in EZ Broadcaster/EZ 2000. **BREAK2** would send them to break 2, and so on. If Natural Log has an "if used" break which is not needed, it won't fill the break with anything. If no spots get logged into the avails immediately following the break number line, the break is "skipped" in Spartamation / EZ Broadcaster / EZ-2000. In this way optional breaks can be set up in the log formats but skipped when not needed.



Event ID	Scheduled Time	Event Description	Length	Avail Restriction	Fill Priority	Fill Code	Source
0205	2:17:00 AM	&BREAK1					
0206	2:17:00 AM	** Commercial Break	2:00		2	If Used Fill	Local
0207		*^			2		Local
0208		*^			2		Local
0209		*^			2		Local
0210							
0211	2:28:00 AM	&BREAK2					
0212	2:28:00 AM	** Commercial Break	2:00		3	Must Fill	Local
0213		*^			3		Local
0214		*^			3		Local
0215		*^			3		Local
0216		*^			3		Local

10.18 Spartamation Automation [cont]
[formerly EZ-Broadcaster™/ EZ-2000™ Automation]

Spartamation / EZ-Broadcaster / EZ-2000 Commands

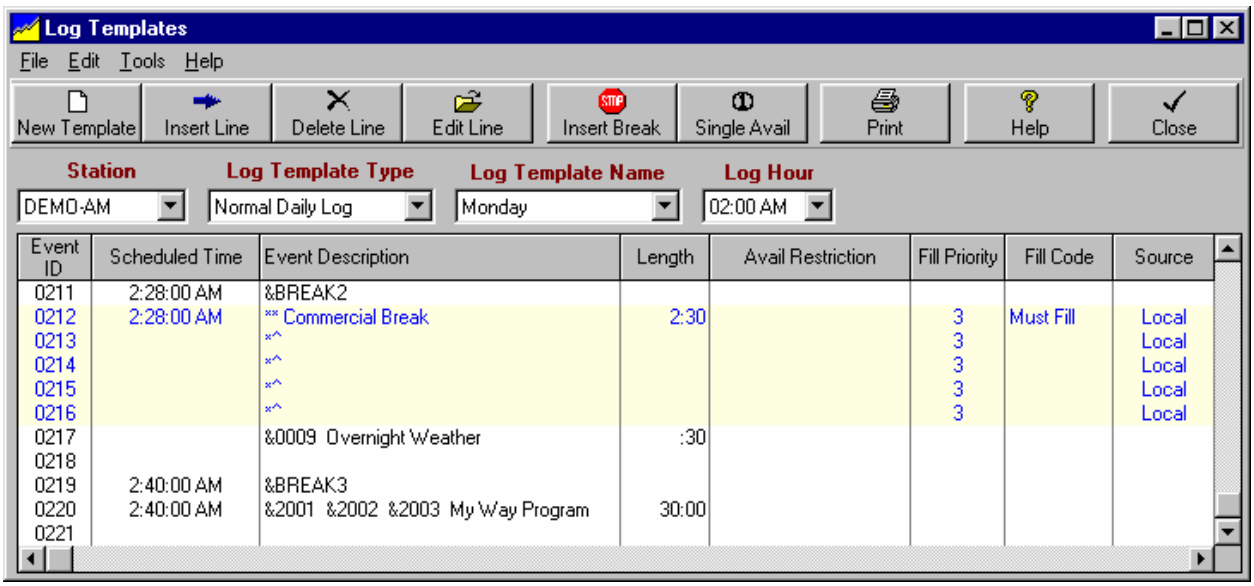
Commands can be sent to the automation (such as source switching if available in the automation). On the Natural Log Templates simply enter **&** and then the command code letter/numbers in the Event description. NL8 will pick up the command or cut name/number to play by capturing all characters between **&** and the first space in the event description.

Play Non-Commercial AudioCut Example - Event 0217 shown below

You need to run weather at a certain time each day. If weather is named **0009**, you could make the entry shown below at event 0217 below. This would play 2:30 of commercials followed by the weather. NL8 only needs **&0009** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

Command Sequence Example - Event 0220 shown below

You may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 2001), then play a program (cut 2002), then play a closer (cut 2003). You could enter each item on a separate line, or you could make the entry shown below at event 0220 in the Natural Log Templates. Note that a single space is inserted between each command or cut and 'My Way Program' is an optional description.

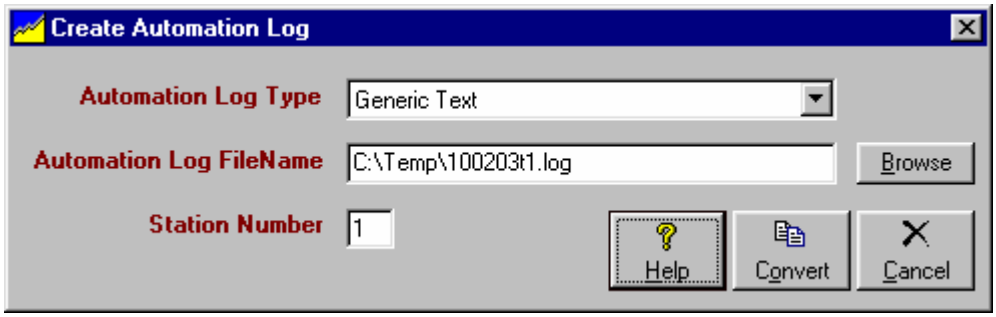


10.19 'Generic Text' Automation Log

Generic Text [NL-DOS format] used by Dalet™ / Audisk™ / Pristine RapidFire™

NOTE: Most of these systems require a custom import filter that you must obtain (usually purchase) from the automation vendor. Natural Log can generate such a file as described on page 11-23. Use the file format information contained on the following pages to tell those reader modules where the data is located in our output file. With this information, you or the automation vendor should be able to configure the automation reader module to read and import our log file. You can try the **Generic Text [NL8-Windows format]** file output for any automation system not specifically supported by Natural Log if the automation system has its own configurable "reader" module.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



Cut Numbers

The Natural Log generic automation log export can use any cut numbers/names up to 8 digits of numeric and alphanumeric characters, however some automation systems are further limited.

Log Reconciliation is Not Supported for Generic Log

The Natural Log system does not reconcile with any system that use the NL Generic automation log at this time. If the vendor will provide play log specs we will support reconciliation.

Output & Input Log FileNames

Output (send) log file

mmddyrT#.LOG	mm is month, dd is day, yr is year # is the optional station #
110295T1.LOG	is Send Log 11-02-95 for station1

Input (reconcile) log file Not supported

10.19 'Generic Text' Automation Log (cont)

Generic Text [NL-DOS format] used by Dalet™ / Audisk™ / Pristine RapidFire™

Automation Commands

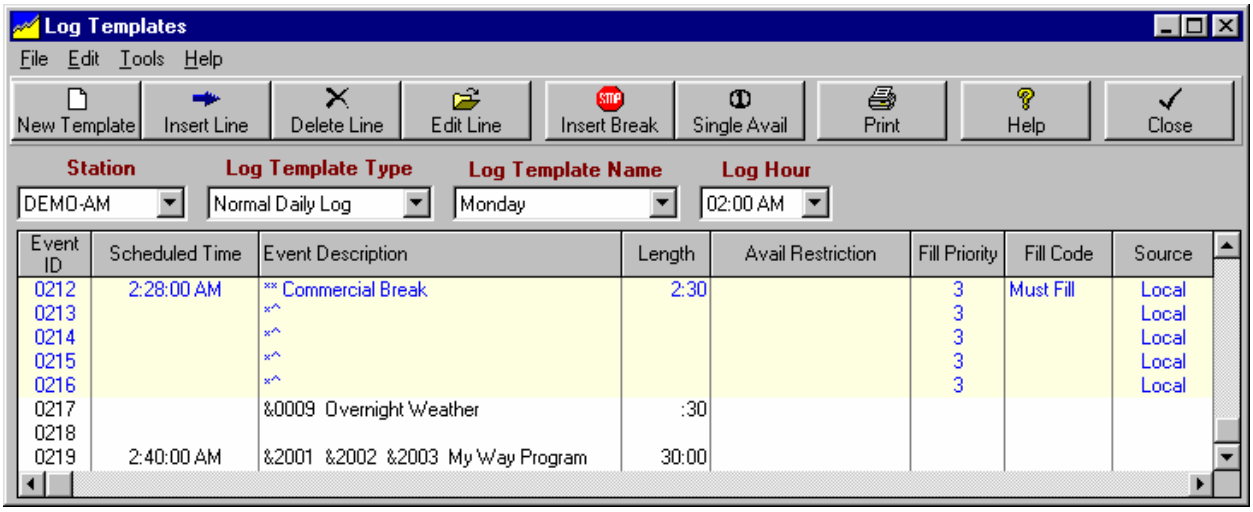
Natural Log can send commands to the automation (such as source switching) On the Natural Log Templates, simply enter **&** and then the command code letter/numbers in the Event description. NL8 will pick up the command or cut name to play by capturing all characters between **&** and the first space in the event description.

Play Non-Commercial AudioCut Example - Event 0217 shown below

Assume you need to run weather at a certain time each day. If weather is named **0009**, you could make the entry shown below at event 0217 below. This would play 2:30 of commercials followed by the weather. NL8 only needs **&0009** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

Command Sequence Example - Event 0219 shown below

Assume you may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 2001), then play a program (cut 2002), then play a closer (cut 2003). You could enter each item on a separate line, or you could make the entry shown below at event 0219 in the Natural Log Templates. Note that a single space is inserted between each command or cut and 'My Way Program' is an optional description.



10.19.01 'Generic Text' Automation Log File Format

Generic Text Automation Log Format

The file is straight ASCII with no page breaks, no formfeeds, no headers, and no graphics. NL-DOS format lines are 78 characters long **plus** a Carriage Return/Line Feed [total 80 characters per record]. NL8-Windows format lines are 90 characters long **plus** a Carriage Return/Line Feed [total 92 characters per record]. Both formats are provided in NL8 because some automation systems can only import the NL-DOS format [limited to CopyID's 8 characters or less!]. Please call Natural Software with any questions about these file formats.

The file name is: **mmddyrT#.LOG**

where: mm=Month ## (05 for May)
dd=Day ## (01 for the first)
yr=Year ## (95 for 1995, 01 for 2001)
T=traffic schedule (M is for Music schedule)
#=station number (usually 1, may be 1 or 2 if AM/FM station)

Example: 050195T1.LOG is Traffic log for 05-01-95 for station 1.

Generic Text [NL8-Windows Format]

[Newer format for full 20 -character CopyID's]

COLUMN	LENGTH	FIELD IDENTIFICATION
1	3	Scheduled Hour (##:)
4	3	Scheduled Minute (##:)
7	2	Scheduled Second (##)
10	20	Cut number (filename to be played, left justified)
32	24	Event description (sponsor name,etc)
57	4	Length in seconds(#### left padded with zeroes)
62	8	Played Time hh:mm:ss [not used by NL8]
71	16	Reserved
87	4	Natural Log event number
91	2	Carriage Return / Line Feed

Generic Text [NL-DOS Format] used by Dalet™ [NL-DOS format] / Audisk™ / Pristine RapidFire™

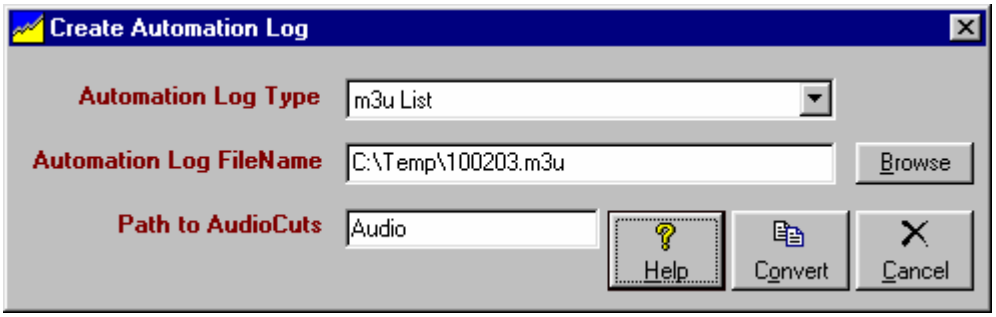
[Older format limited to 8-character CopyID's]

COLUMN	LENGTH	FIELD IDENTIFICATION
1	3	Scheduled Hour (##:)
4	3	Scheduled Minute (##:)
7	2	Scheduled Second (##)
10	8	Cut number (filename to be played, left justified)
20	24	Event description (sponsor name,etc)
45	4	Length in seconds(#### left padded with zeroes)
50	8	Played Time hh:mm:ss [not used by NL8]
59	16	Reserved
75	4	Natural Log event number
79	2	Carriage Return / Line Feed

10.20 m3u List Automation Log File

NL8 can create a standard .m3u list of audio cuts to be played by some of the "audio players" available. **We cannot help you Troubleshoot problems with these audio players!** All NL does is send them a list of audio cuts to play and their developers are responsible for their support!

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]**to create the Automation Log.



Cut Numbers / Copy ID

The Natural Log system can use any cut numbers up to 20 alphanumeric characters. Be sure to include the .mp3, .wav or other extensions when entering the CopyID in NL8 during order line entry.

If the complete path, filename, and extension is 20 characters or less, you can enter the entire path and filename with extension for the audio cut in the NL8 CopyID field during order line entry.

If your audio cut path, filename, plus extensions are greater than 20 characters, you must not enter the path in the CopyID field in NL8, leave off the path and just enter the filename and extension. Then when the Log Conversion is done in the NL8 Log Editor, you can specify the path to be added in front of the filenames.

As an example, assume you keep your audio cuts in a folder named Audio on your C drive and they all have .mp3 extensions. If you enter **C:\Audio** as the path to your audio cuts, NL8's log converter will add this as the path to all your audio files names (CopyID's). **When using this option, all your audio files must reside in the same folder**.

Log Reconciliation not supported for m3u Logs.

If the vendor will provide play log specs we will support reconciliation.

Output & Input Log FileNames

Output (send) log file

mmddyy.m3u	where mm=month, dd=day, yy=year
110295.m3u	is the Log for 11-02-95

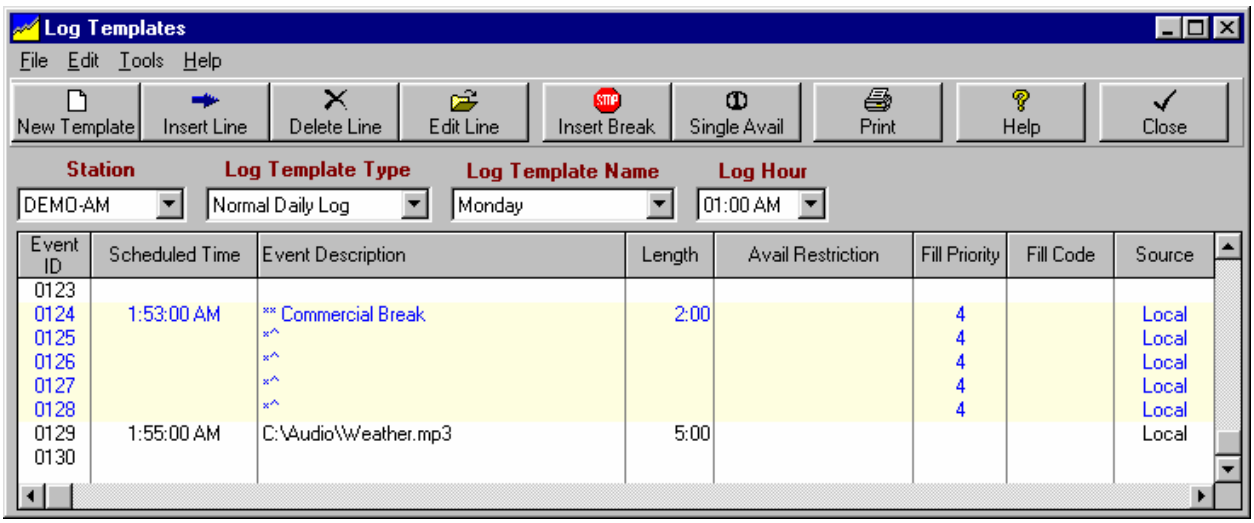
Continued on next page

10.20 m3u List Automation Log File (cont)

Automation Commands

Commands can be sent to the automation (such as source switching, playing liners, etc.) from the Natural Log system. On the Natural Log Templates simply enter **&** and then the full pathname, filename (including extension) in the Event description. NL8 system will pick up the command or cut name to play by capturing all characters after the &.

Play Non-Commercial Audio Cut Example Assume you want to play a cut named C:\Audio\Weather.mp3. You would enter this in the NL log templates as shown on event 0129 below. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

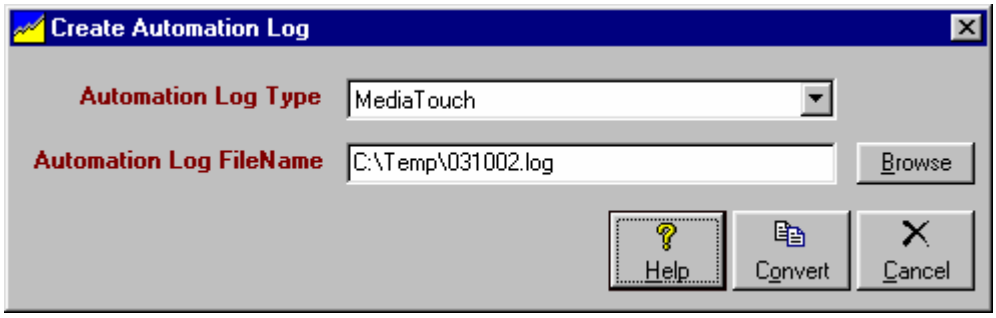


10.21 MediaTouch™ / iMediaTouch™ Automation

MediaTouch and iMediaTouch are the same as far as log interfacing.

> The Natural Log interface for MediaTouch systems exports a log in the "Scott Studios" generic format. You must purchase the "Log Tools" module from MediaTouch to import this log into MediaTouch automation systems.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



MediaTouch Audio Cut Numbering

The MediaTouch system can use any cart numbers from ZM0001 to ZM9999 but it also uses "Categories". There can be duplicated ZM####'s in different categories which means that cut ZM0034 from category COM is not the same as cut ZM0034 from category PSA. **This conflicts with NL8's need to see a unique CopyID for each audio cut**. Therefore when creating CopyID's for NL8, use **CAT-ZM####** as the CopyID. In place of CAT, put the 3-letter MediaTouch category, a dash, then the ZM####. If you fail to put a dash in the CopyID, NL8 will use whatever you put in the LogType box on the order line as the MediaTouch "category" as did NL for DOS.

Log Reconciliation is supported for MediaTouch

You must connect NL8 to the OUT log created by MediaTouch. Contact MediaTouch for the location of this file. Use the **[Convert-Log] [Reconcile Schedule-Log with Play-Log]** function in the **Log Editor** section of Natural Log, with the day's log loaded into the NL8 Log Editor. You will need to use the **[Browse]** button to point NL8 to the OUT log file. Natural Log will read the run times and print a discrepancy report.

Output & Input Log FileNames

Output (send) log file

yrmmdd.LOG	yr=year, mm=month, dd=day
951102.LOG	is Send Log for 11-02-95

Input (reconcile) log file

yrmmdd.OUT	yr=year, mm-month, dd=day
950211.OUT	is Play Log for 11-02-95

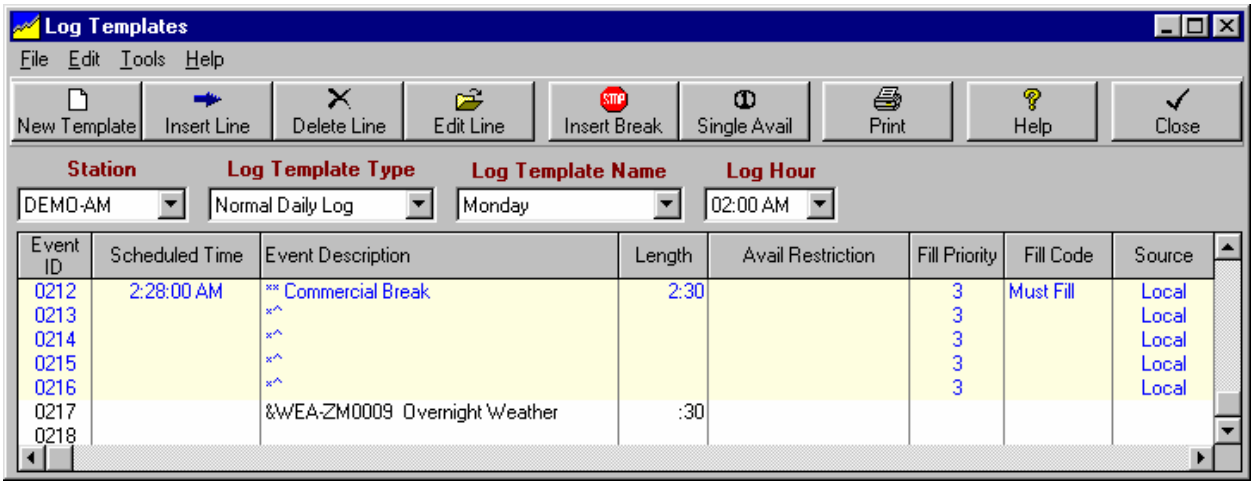
10.21 MediaTouch™ / iMediaTouch™ Automation (cont)

MediaTouch System Commands

Commands can be sent to the MediaTouch system (such as source switching) from the Natural Log system. On the Natural Log Templates, simply enter **&,** followed by the MediaTouch "Category", then the command code letter/numbers in the Event description. NL8 will pick up the command or cut name to play by capturing all characters between **&** and the first space in the event description.

Play Non-Commercial AudioCut Example - Event 0217 shown below

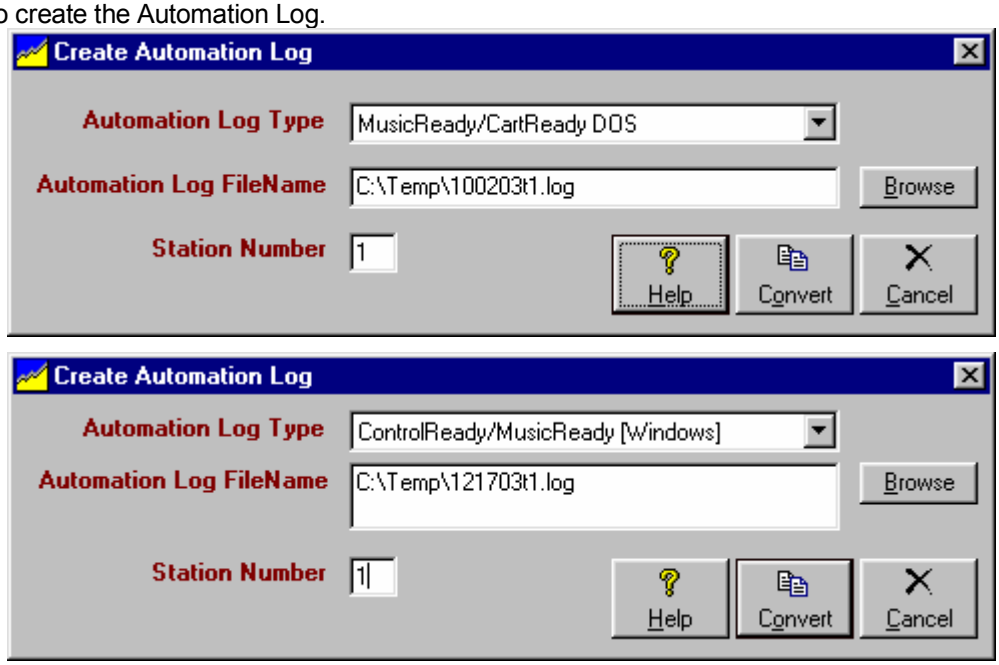
You need to run weather at a certain time each day. If weather is named ZM**0009** from category **WEA**, you could make the entry shown below at event 0217 below. This would play 2:30 of commercials followed by the weather. NL8 only needs **&WEA-ZM0009** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.



10.22 ControlReady™/MusicReady™ / CartReady™/WireReady™ Automation

This log uses the Generic Automation Log Format, see section 10.19.01 for a description. You will need a log import filter from the MusicReady developer to import this log. The information below applies to all Wiready automation systems: ControlReady, both versions of MusicReady [DOS and Windows versions] and a previous product named CartReady.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



Cut Numbers

The Natural Log system can use any cut numbers/names up to 8 digits of numeric and alphanumeric characters when interfacing to the DOS version of MusicReady. The Windows version of MusicReady handles long filenames but Natural Log's limit in this case is 20 characters.

Log Reconciliation is Supported for ControlReady/MusicReady

The Natural Log system does reconcile with both versions of MusicReady but the PlayLog has different names depending on which MusicReady version it was created by.

Output & Input Log FileNames

Output (send) log file

mmddyyT#.LOG mm is month, dd is day, yy is year

Input (reconcile) log file MusicReady-DOS

mm-dd-yy.LOG mm is month, dd is day, yy is the year

Input (reconcile) log file ControlReady/MusicReady-Windows

#_mm_dd_yyyy_Playlist.LOG is the MusicReady Deck#, mm is month, dd is day, yyyy is the year, PlayList is the playlist name (usually CallSign-Day)

10.22 ControlReady™/MusicReady™ / CartReady™/WireReady™ Automation (cont)

Automation Commands

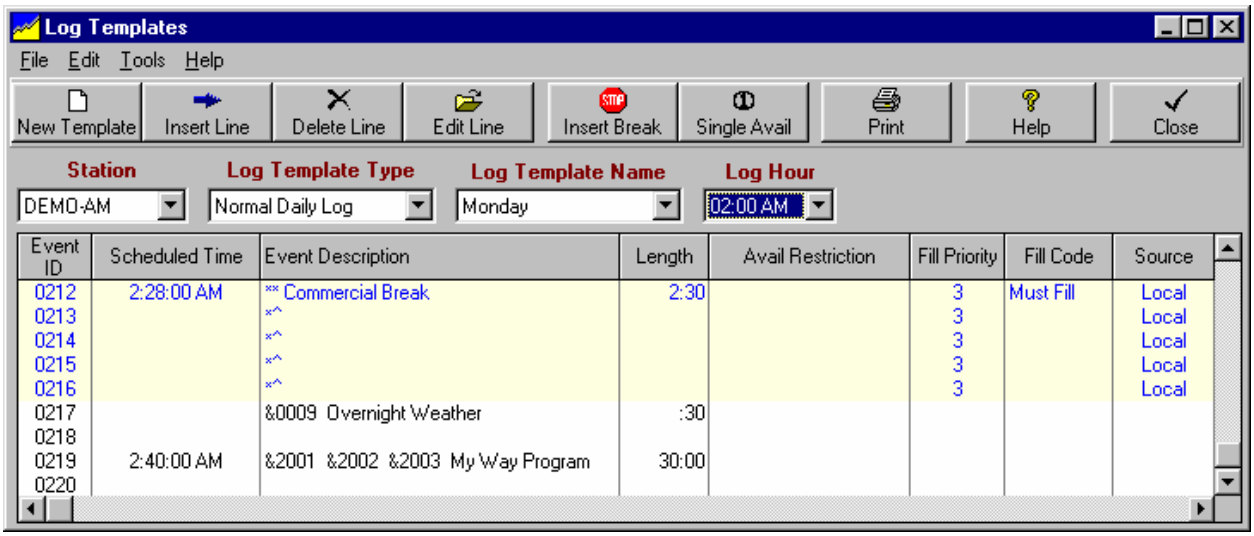
Natural Log can send commands to the automation (such as source switching) On the Natural Log Templates, simply enter **&** and then the command code letter/numbers in the Event description. NL8 will pick up the command or cut name to play by capturing all characters between **&** and the first space in the event description.

Play Non-Commercial AudioCut Example - Event 0217 shown below

You need to run weather at a certain time each day. If weather is named **0009**, you could make the entry shown below at event 0217 below. This would play 2:30 of commercials followed by the weather. NL8 only needs **&0009** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

Command Sequence Example - Event 0219 shown below

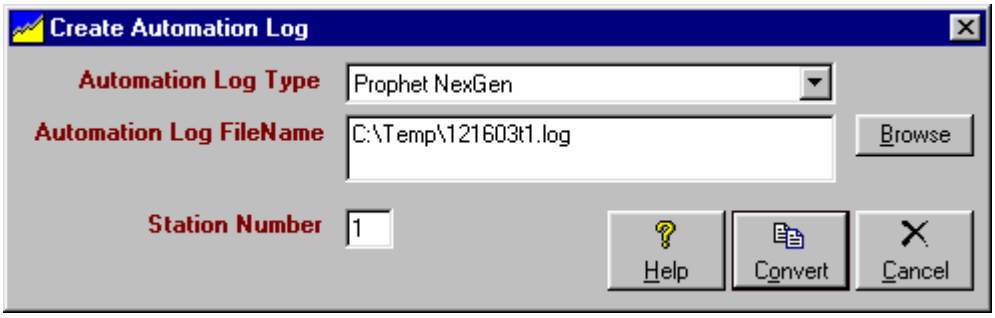
You may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 2001), then play a program (cut 2002), then play a closer (cut 2003). You could enter each item on a separate line, or you could make the entry shown below at event 0219 in the Natural Log Templates. Note that a single space is inserted between each command or cut and 'My Way Program' is an optional description.



10.23 NexGen™ [Prophet] Automation

NexGen requires an import filter/template to read commercial logs. With the information listed below under **Configure the Prophet log import filter**, you can configure the log import filter/template to read and import theNL8 log file. You cannot use Prophet's predefined Natural Log import/template because it is designed for **NL-DOS**. In NL8 There is an automation type in NL8 call Prophet NexGen [NL-Dos] that uses this format for users updating form NL-DOS so they won't have to reconfigure their Prophet log import filter. New NL8 users should NOT use that format, they should use the normal Prophet NexGen log export in NL8. NexGen [AutoLoad] automation type in NL8 is to be used only by those requiring a special filenaming scheme because they are using the NexGen AutoLoad functionality which we do not recommend all others should select Prophet NexGen.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



Cut Numbers

The Natural Log automation export can use any cut numbers up to 6 digits of **numeric** characters. However, Prophet NexGen allows audio cuts with a 6-digit "SpotNumber" [000001 through 999999] and a 3-Digit "CutNumber" [001 through 150]. There are 2 uses for this.

1. SpotNumber is often used to designate a CustomerID. Then the CutNumber is used to identify a specific cut belonging to that customer. It is not necessary that you use this numbering system but if you do, in NL8 use copyID's formatted exactly as follows:
ssssss-ccc where **ssssss** is the NL8 Customer number, **ccc** is the CutNumber. Dash is required.

2. Any SpotNumber with a CutNumber of 000 is used to designate a Prophet Rotator.
ssssss-000 where **ssssss** is the Prophet Rotator number. Dash is required.

It is not recommended you use the Prophet internal rotators, instead let NL8 control the rotation of your copy so the proper copyID's can be shown on your affidavits. If you let Prophet rotate your copy, NL8 cannot print accurate affidavits showing actual CopyID's

Log Reconciliation is Supported for Prophet NexGen

"Verify" logs must be generated by NexGen so Natural log can read exact runtimes for log reconciliation. Here are the settings you need to use when configuring the "Verify" log in Prophet NexGen:

- Date 1 8
- Time 9 8
- Description 17 32
- Event Status 69 2
- SpotNumber 72 6
- CutNumber 79 3

Output & Input Log FileNames

Output (send) log file

mmddyrT#.LOG	mm is month, dd is day, yr is year
110295T1.LOG	is Send Log 11-02-95 for station1

Output (send) log file for the NexGen [AutoLoad] version

#mmddyr.trf	mm is month, dd is day, yr is year
1110295.trf	is Send Log 11-02-95 for station1

Input (reconcile) log file

T#mmddyy.ver	# is station number, mm is month, dd is day, yr is year
T1110295.ver	is reconciliation Log 11-02-95 for station 1

Configure the NexGen log import filter

Note: NL Windows users **cannot** use the NexGen predefined log import template named Natural Log! [That import format will only work with Natural Log DOS]. All other position definitions should be set to position 0.

- Description 32 24
- CutNumber 17 3
- SpotNumber 10 6
- Verify Sequence 87 4
- LogTime Hour Pos 1
- LogTime Min Pos 4

NexGen Automation Commands

Natural Log can send commands to the automation (such as source switching) On the Natural Log Templates, enter **&** followed by the command code letter/numbers in the Event description. NL8 will pick up the command or cut to play by capturing all characters between **&** and the first space in the event description.

Block # Example - Event 0211 shown below

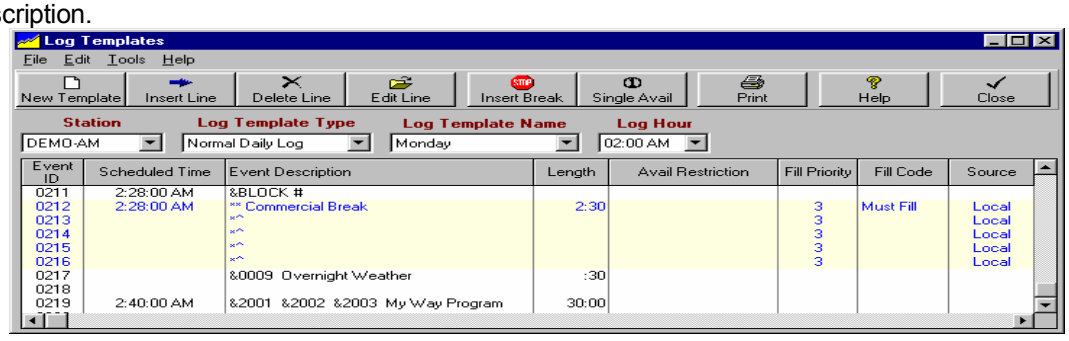
Block numbers for NexGen can be entered in the event description column of NL8 log templates by entering &BLOCK , space and # as shown at event 0211.

Play Non-Commercial AudioCut Example - Event 0211 shown below

Assume you need to run weather at a certain time each day. If weather is named **0009**, you could make the entry shown below at event 0217 in NL log templates. This would play 2:30 of commercials followed by the weather. NL8 only needs **&0009** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders.**

Command Sequence Example - Event 0219 shown below

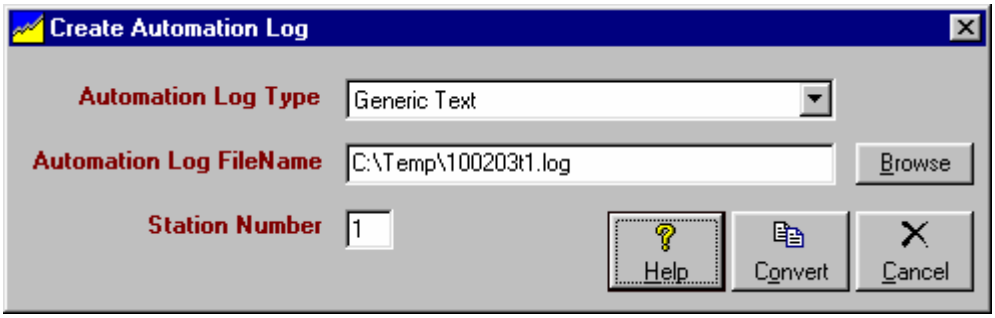
Assume you want to play a program opener (cut 2001), then a [non-billable] program (cut 2002), then a closer (cut 2003). You could enter each item on a separate line, or you could enter them as shown at event 0219 in the Natural Log Templates. One space is inserted between cut. 'My Way Program' is an optional description.



10.25 RCS Automation Log

This automation log is in RCS standard format and can be imported in RCS Selector "Linker". We cannot assist you in configuring the Selector Linker program to read this file, please contact RCS for Linker support.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log]** **[Automation Log]** to create the Automation Log.



Cut Numbers

The Natural Log RCS automation log export can use any cut numbers/names up to 8 digits of numeric and alphanumeric characters, however some automation systems are further limited.

Log Reconciliation is Not Supported for RCS

The Natural Log system does not reconcile RCS play logs at this time. If the vendor will provide play log specs we will support reconciliation.

Output & Input Log FileNames

Output (send) log file

LGyymmdd.###	mm is month, dd is day, yy is year ### is the automation station number
LG110295T.001	is Send Log 11-02-95 for station1

Input (reconcile) log file Not supported

Automation Commands

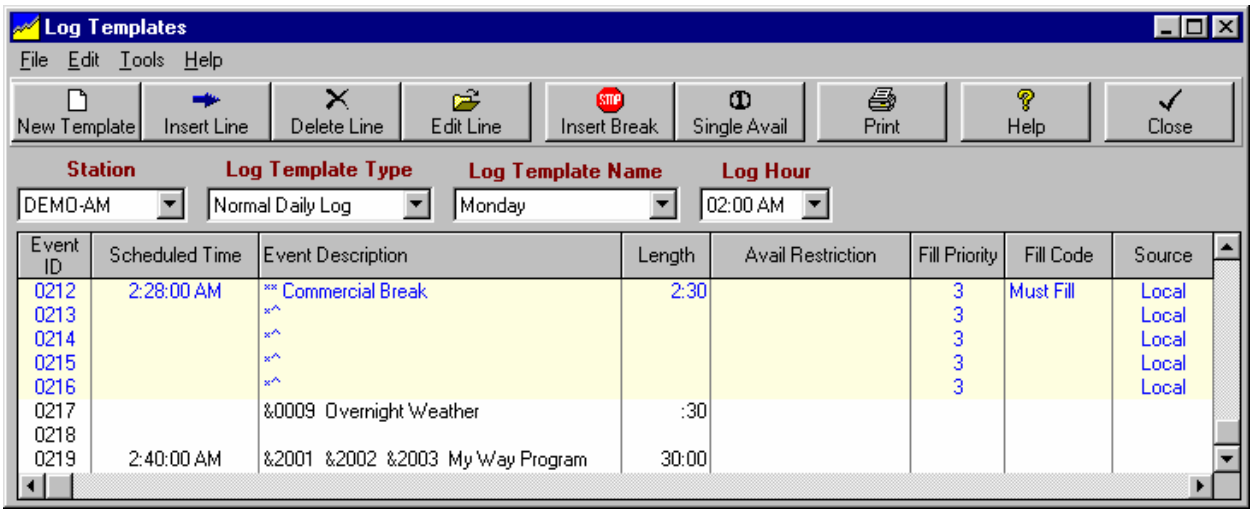
Natural Log can send commands to the automation (such as source switching) On the Natural Log Templates, simply enter **&** and then the command code letter/numbers in the Event description. NL8 will pick up the command or cut name to play by capturing all characters between **&** and the first space in the event description.

Play Non-Commercial AudioCut Example - Event 0217 shown below

You need to run weather at a certain time each day. If weather is named **0009**, you could make the entry shown below at event 0217 below. This would play 2:30 of commercials followed by the weather. NL8 only needs **&0009** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

Command Sequence Example - Event 0219 shown below

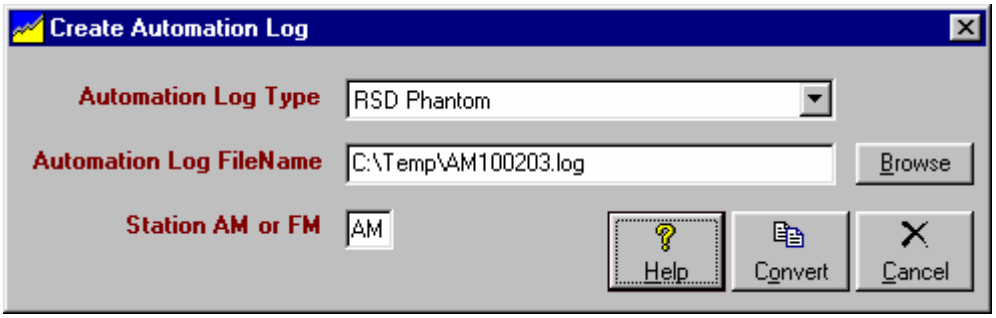
You may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 2001), then play a program (cut 2002), then play a closer (cut 2003). You could enter each item on a separate line, or you could make the entry shown below at event 0219 in the Natural Log Templates. Note that a single space is inserted between each command or cut and 'My Way Program' is an optional description.



10.26 RDS Phantom™ Automation

In RDS Phantom itself you must set RDS Phantom to import form "Other" traffic type to read the file created by NL8.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



RDS Phantom Cut Numbers

The Phantom can use any cart ID's from 1 to 8 alphanumeric characters. All you need to do is enter the Phantom cut ID for the particular commercial spot into the "CopyID" field in the Natural Log system when entering the order lines. Make sure the number in NL8 matches the number in Phantom.

Log Reconciliation is supported for RDS Phantom

Copy the play log file for the selected single date onto a floppy disc or to a folder on your LAN, and use the **[Convert-Log] [Reconcile Schedule-Log with Play-Log]** function in the **Log Editor** section of Natural Log, with the day's log loaded into the NL8 Log Editor. You will need to use the [Browse] button to point NL8 to the Play-Log. Natural Log will read the run times and print a discrepancy report.

Output & Input Log FileNames

Output (send) log file

?Mmmddyr.LOG	?M is AM/FM, mm=month, dd=day,yr=yr
FM110295.LOG	is FM Send Log for 11-02-95

Input (reconcile) log file

?Mmmddyr.LOG	mm is month, dd is day, yr is year
FM110295.LOG	is FM Play Log for 11-02-95

Continued on next page.

RDS Phantom Commands

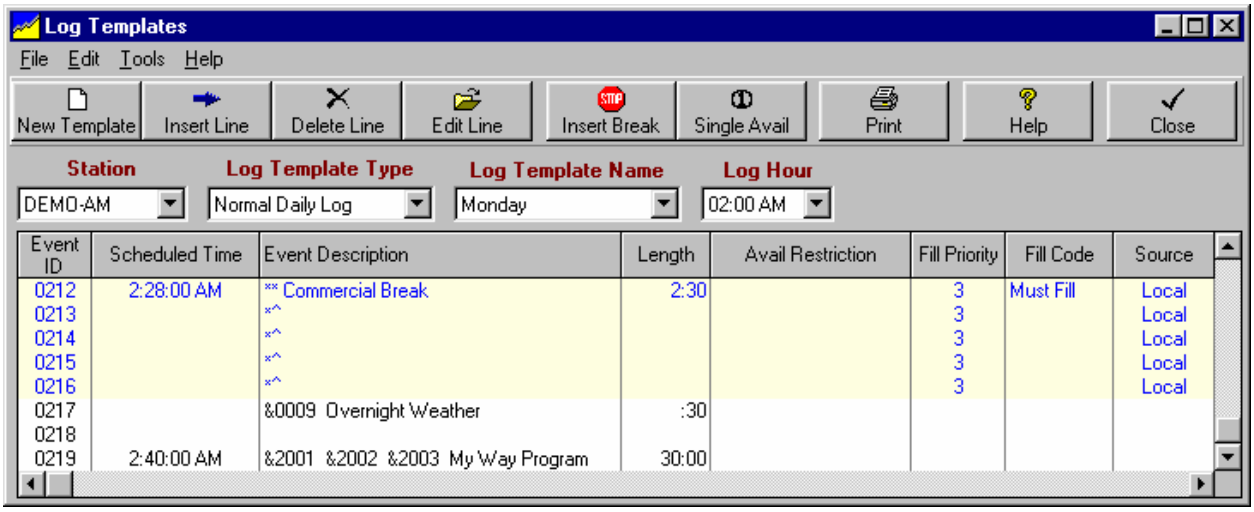
Commands can be sent to the Phantom (such as source switching) from the Natural Log system. On the Natural Log Templates, simply enter **&** and then the command code letter/numbers in the Event description. NL8 will pick up the command or cut name to play by capturing all characters between **&** and the first space in the event description. You may also enter more than one command per line, just enter a space between each command, and start each command with **&**.

Play Non-Commercial AudioCut Example - Event 0217 shown below

You need to run weather at a certain time each day. If weather is named **0009**, you could make the entry shown below at event 0217 below. This would play 2:30 of commercials followed by the weather. NL8 only needs **&0009** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

Command Sequence Example - Event 0219 shown below

You may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 2001), then play a program (cut 2002), then play a closer (cut 2003). You could enter each item on a separate line, or you could make the entry shown below at event 0219 in the Natural Log Templates. Note that a single space is inserted between each command or cut and 'My Way Program' is an optional description.

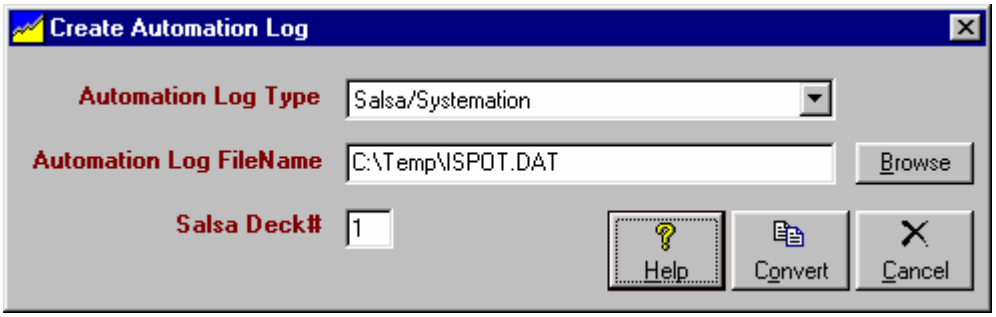


10.27 Salsa™ / Systemation™ Automation

NL8 converts to the native Salsa / Systemation log format so the 'Generic Text' output log format is not used for these automation system logs. Salsa & Systemation use the same interface so we will refer to salsa here but everything applies equally to Systemation as well.

> **Special Note:** All spots that run within one commercial break on Salsa **must** have the same scheduled time. If Natural Log sees a "time change" from one event to the next on the log template, it assumes that a new break has begun.
>
> **Example**: A 3 minute spot break may run at 1:20 but ALL spots within that break must be shown to run at 1:20, NOT 1:20, 1:21, 1:22, etc, even though they cannot all run at the same minute. Also, the break time must EXACTLY match the spot break time set up in Salsa. Keep this in mind when setting up your log formats in Natural Log.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



Salsa Cut Numbers

Salsa can use any cut numbers from 1 to 9999. All you need to do is enter the Salsa cut number for the particular commercial spot into the "CopyID" field during order entry in NL8. Make sure the number in NL8 matches the number in Salsa.

Salsa Deck or Source Numbers

When Natural Log creates the Salsa log file it must tell the automation a "source" or "deck" number from which to play the spots. When you select the **[Convert-Log][Convert-Log] [Automation Log]** in the Natural Log editor, Natural Log will display an extra enter box in which you should enter the "Source" or "Deck" number for the spots.

Log Reconciliation is supported for Salsa

Extract the "Historical Log" from SALSA for a single date onto a floppy disc or to a folder on your LAN, and use the **[Convert-Log] [Reconcile Schedule-Log with Play-Log]** function in the **Log Editor** section of Natural Log, with the day's log loaded into the NL8 Log Editor. You will need to use the [Browse] button to point NL8 to the Play-Log. Natural Log will read the run times and print a discrepancy report.

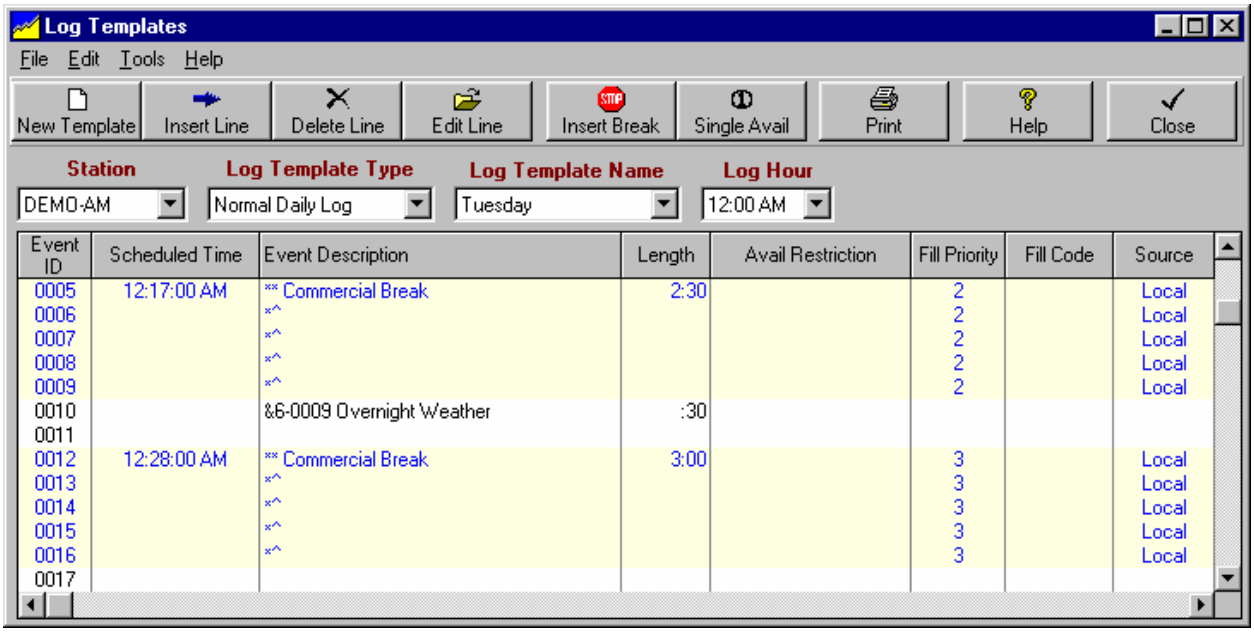
10.27 Salsa™ / Systemation™ Automation
(cont)

Output & Input Filenames

Output (send) log file ISPOT.DAT
Input (reconcile) log file EPLOG.DAT

SpotBreaks

All items in Salsa must fall within a "SpotBreak". Note that there must be breaks set up in Salsa at the exact same time as the breaks on Natural Log or the automation will not properly load the log. NL8 sees every avail as part of a single break until it sees a new time in the Scheduled Time column.



Event ID	Scheduled Time	Event Description	Length	Avail Restriction	Fill Priority	Fill Code	Source
0005	12:17:00 AM	** Commercial Break	2:30		2		Local
0006		*^			2		Local
0007		*^			2		Local
0008		*^			2		Local
0009		*^			2		Local
0010		&6-0009 Overnight Weather	:30				
0011							
0012	12:28:00 AM	** Commercial Break	3:00		3		Local
0013		*^			3		Local
0014		*^			3		Local
0015		*^			3		Local
0016		*^			3		Local
0017							

Salsa Commands

Commands can be sent to the automation (such as to play certain audio cuts) from the Natural Log system. On the Natural Log Templates, simply enter **&** followed by the "Source" or "Deck" number, a dash, and then the command or cut number as the Event description. The system will read the source and command or cut ## by reading all characters between **&** and the first space in the event description.

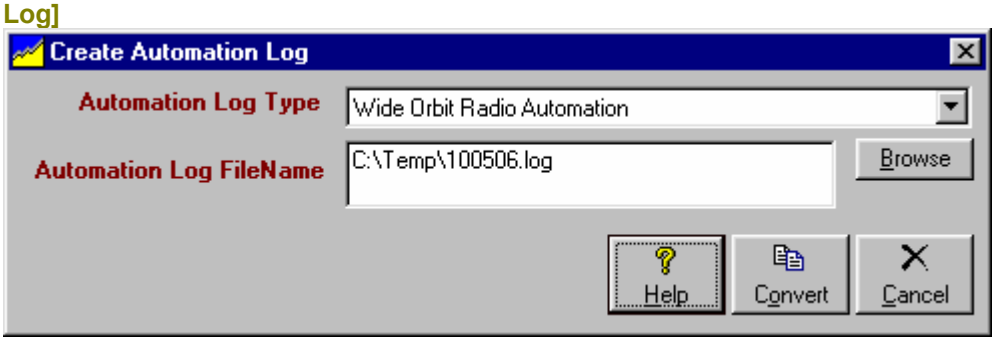
Play Non-Commercial AudioCut Example - Event 0010 shown above

You need to run weather at a certain time each day. If weather is named **0009** from source **6**, you could make the entry shown below at event 0010 above. This would play 2:30 of commercials followed by the weather. NL8 only needs **&6-0009** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

10.28 Wide Orbit / Google / Scott SS32™

These instructions apply to Wide Orbit / Google GRA, Scott Studios SS16, SS32, DSS, and AXS-3 systems. The log file created for Wide Orbit Google/Scott Studios automation by NL8 is intended to be imported and merged by the Scott Studios LogMerge or Merge32 program.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]**



Wide Orbit / Google / Scott SS32 Cut Numbers

The Wide Orbit / Google / SS32 systems can use cart numbers from DA0001 to DA9999 but they also use "Categories". There can be duplicated DA####'s in different categories which means that cut DA0034 from category COM is not the same as cut DA0034 from category PSA. **This conflicts with NL8's need to see a unique CopyID for each audio cut**. Therefore when creating CopyID's for NL8, use **CAT-DA####** as the CopyID. In place of CAT, put the 3-letter SS32 category, a dash, then the DA####. If you fail to put a dash in the CopyID, NL8 will use the LogType box on the order line as the Google/SS32 "category".

Log Reconciliation is supported for Wide Orbit / Google / SS32

Use the **[Convert-Log] [Reconcile Schedule-Log with Play-Log]** function in the **Log Editor** section of Natural Log, with the day's log loaded into the NL8 Log Editor to read the Aired Log from automation. You will need to use the [Browse] button to point NL8 to the Play-Log. Natural Log will read the run times and print a discrepancy report. Normally you enter **[ALL]** in the **Aired Log Category(s)** box in NL8 log reconciliation but if you have duplicated cut numbers in different categories you may want to limit the categories included. You can remove [ALL] and put in the audio cut category(s) to be included separated by commas.

Output & Input Log FileNames

Output (send) log file	yrmmdd.LOG	yr=year, mm=month, dd=day
	951102.LOG	is Send Log for 11-02-95
Input (reconcile) log file	yrmmdd.AIR	yr=year, mm-month, dd=day
	951102.AIR	is Air Log for 11-02-95

Wide Orbit / Google Radio Automation Special Merge Requirements

This does NOT apply to Scott Studios SS32. If you are using Wide Orbit or Google Radio Automation to merge a music and commercial log, the commercial log items will only be merged into the music log where there are "**Merge Markers**" in the music log. These merge markers must be of the appropriate length and start time to accept the spot breaks from NL8. To create these please consult your music software vendor. The following information must be included in the merge marker on the music log:

Start Time must match the start time of the commercial break in NL8.

Google Sync	**.** [a single dot]		
Google Category	**COM**	Google Cut	**DALIVE**

10.28 Wide Orbit / Google / Scott SS32™

Wide Orbit / Google / Scott Studios SS32 Commands

When using automation, it is sometimes necessary to send command codes to the automation, such as source switching, playing jingles, legal ID's, etc. This is done in Natural Log by entering **TEXT** on the Natural Log Templates at whatever point you need the command to occur. You indicate to Natural Log that this is a command to be sent to the automation by preceding it with **&**. When sending commands:

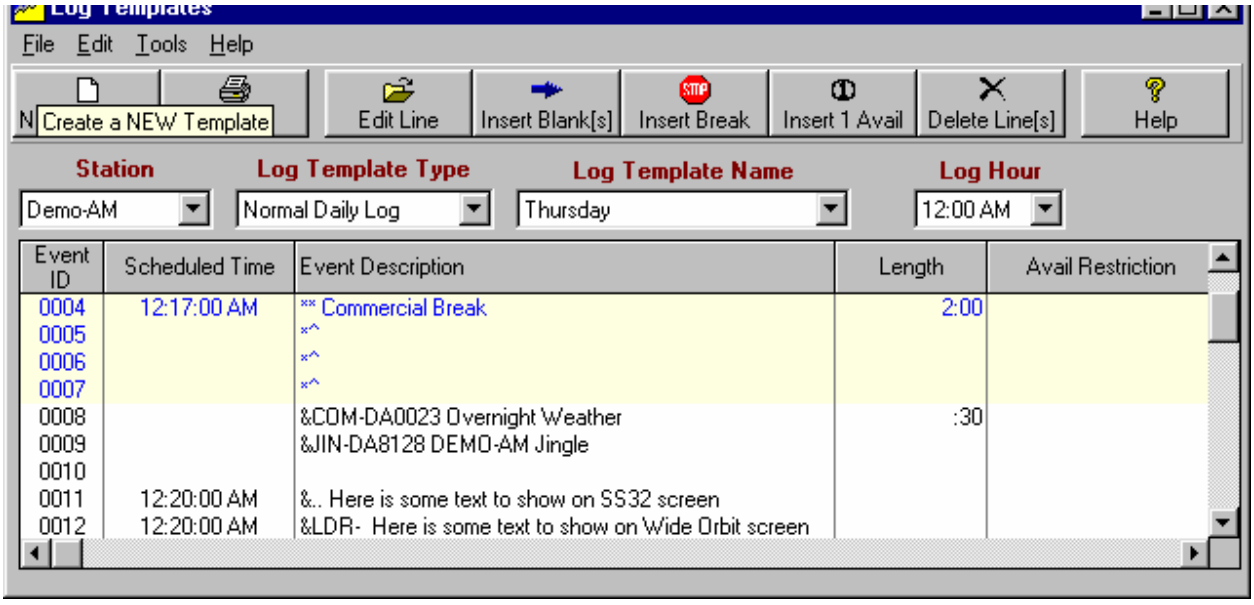
- Be sure to start with the **&**
- If you want to send a sync-code such as # or *, place it immediately after the **&**, otherwise sync will be assumed to be blank. If the sync code were to be * then you could enter **&*JIN-DA1234**
- When sending automation commands to these automation systems, always separate the "Category" and DA number with a dash. If no category, (such as with commands) do not include the dash and just put the command identifier.
- After at least 1 blank space to designate the end of the cut ####, you can put a description in the format **Title, Artist, Trivia**, **Intro, EndType** separated by commas. If you do not want to use all fields, just put commas with no entry for the unused fields up to the fields(s) you do want to use.
- You may include a cut length by placing it after the Description using the format {mm:ss}. Example: **&JIN-DA1243 Jingle {00:07}**

Play Non-Commercial AudioCut Example - Event 0009 shown below

You need to run weather at a certain time each day. If weather is named **DA0023** from category **COM**, you could make the entry shown below at event 0008 below. This would play 2:00 of commercials followed by the weather. NL8 only needs **&COM-DA0023** and we inserted "Overnight Weather" only to make it easier to read. Event 0009 calls for a jingle from category JIN cut DA8128 to be played next. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3**.

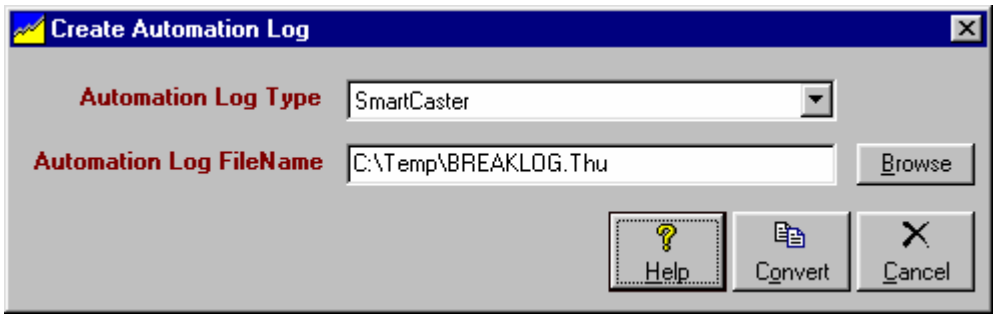
Display Line of Text on Automation Screen Example - Event 0012 shown below

Assume you want to put a line of text on-screen in the automation system without causing anything to play. In the event description column of NL8 log templates put & followed by two periods then a space then the text such as shown below on event 0011. Alternatively in Wide Orbit you can enter a memo as a Category with no Cutnum, at least one space and then the text memo as shown below on event 0012.



10.29 Smartcaster™ Automation

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



SmartCaster Cut Numbers

The Smartcaster uses 5 digit cart numbers which complies with Natural Log's numbering system. Therefore you simply enter the 5 digit SmartCaster number (or letters if used) into the CopyID field when entering Order Lines in Natural Log. Make sure the number in our system matches the number in SmartCaster.

Merging NL8 log into SmartCaster BreakLogs

The SmartCaster Automation system uses a BreakLog into which both music and traffic can be merged. You must choose to CLEAR or MERGE NL8 into the BreakLog.

CLEAR If you are not using a music scheduler, we recommend you select **CLEAR** in the NL8 log conversion window. This will create a new completely blank BreakLog into which the NL8 log data will be inserted.

MERGE If you are using a music scheduler, we recommend you select **MERGE** in the NL8 log conversion window. This will only replace those breaks into which NL8 puts commercial content and NOT clear those breaks that have music loaded from a separate music scheduler.

Log Reconciliation is Supported for SmartCaster

You will need to obtain a "Verification log" from Smartcaster named LOG.ddd where ddd is the day-of-week abbreviation.

Output & Input Log FileNames

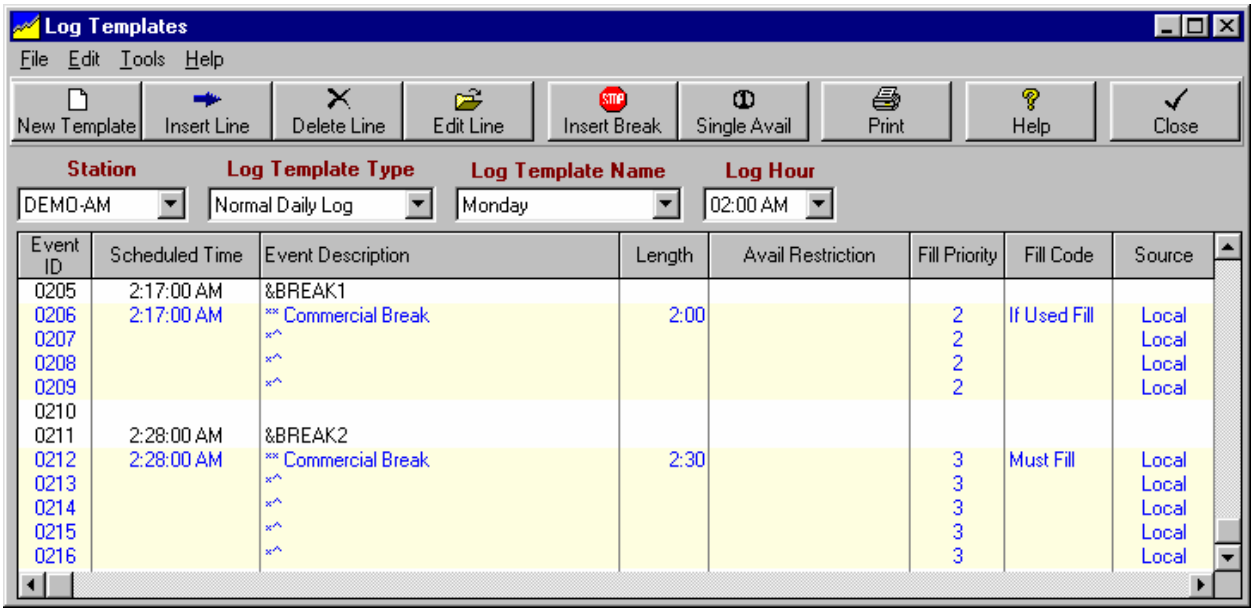
Output (send) log file
BREAKLOG.dayday=Day of week (Mon/Tue/etc)
BREAKLOG.MON is send Log for Monday

Input (reconciliation/verification) file
LOG.ddd where ddd is the day of week abbreviation
LOG.MON is reconciliation/verification log for Monday

Continued on next page.

Smartcaster Break Numbers

The SmartCaster works with 12 breaks per hour into which you can insert spots. Natural Log allows you to set up only those breaks you want to use in the Natural Log Templates. You need a way to identify the Smartcaster "Break numbers" into which the spots are to be inserted when the log conversion is done. Therefore, immediately before each "Commercial Break" on the Natural Log Template, you need to tell it a SmartCaster "Break number".



Event ID	Scheduled Time	Event Description	Length	Avail Restriction	Fill Priority	Fill Code	Source
0205	2:17:00 AM	&BREAK1					
0206	2:17:00 AM	** Commercial Break	2:00		2	If Used Fill	Local
0207		*^			2		Local
0208		*^			2		Local
0209		*^			2		Local
0210							
0211	2:28:00 AM	&BREAK2					
0212	2:28:00 AM	** Commercial Break	2:30		3	Must Fill	Local
0213		*^			3		Local
0214		*^			3		Local
0215		*^			3		Local
0216		*^			3		Local

The event description **&BREAK1** tells Natural Log to insert any spots in the following avails into break #1 of the 2AM hour in Smartcaster.

&BREAK2 would send them to break 2, and so on. If Natural Log has an "if used" break which is not needed, it won't fill the break with anything. If no spots get logged into the avails immediately following the break number line, the break is "skipped" in SmartCaster. In this way optional breaks can be set up in the log formats but skipped when not needed.

SmartCaster Break Numbers and Music Scheduling

Within each hour you can have breaks numbered from 1 to 12. If you are using Smartcaster to play music as well as commercials, the music must be inserted into "breaks" as well. If this is the case, you might want to use odd breaks (1,3,5,7,9,11) as "spot breaks", and even breaks (2,4,6,8,10,12) as "music breaks". However, you may use the break numbers in any way you like as long as they are compatible with Smartcaster.

Continued on next page.

10.29 Smartcaster™ Automation (cont)

SmartCaster Commands

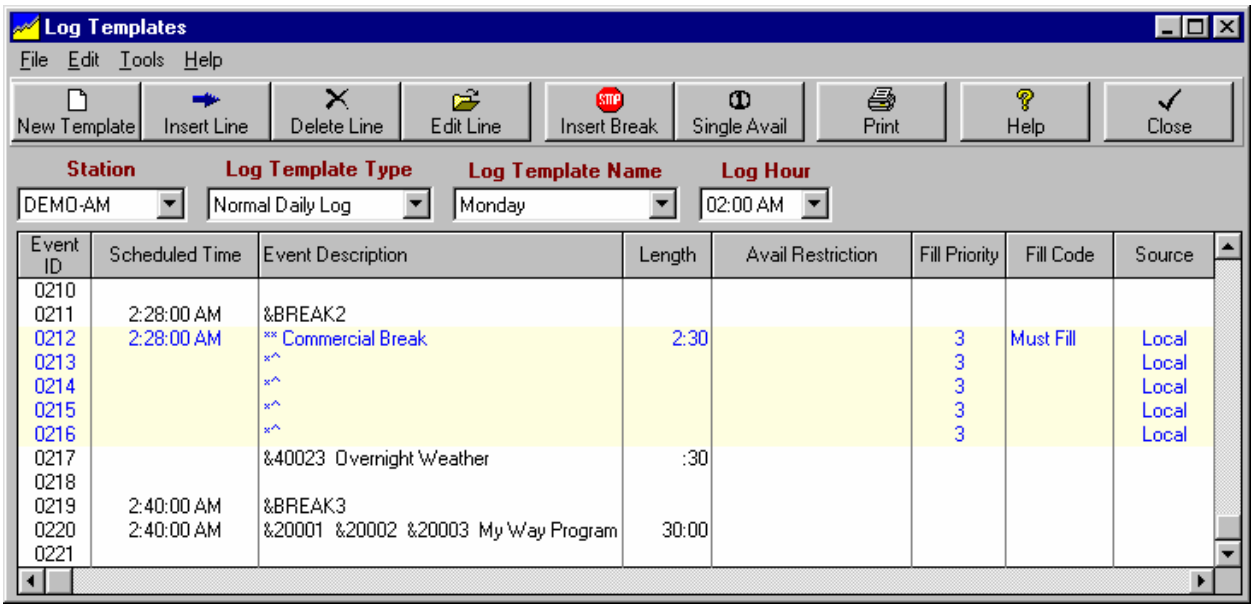
Automation commands can be sent to the Smartcaster (such as to play a specific audio cut or source switching) from Natural Log. On the Natural Log Templates, simply enter **&** and then the command code letter/numbers in the Event description. NL8 will pick up the command or cut name to play by capturing all characters between **&** and the first space in the event description.

Play Non-Commercial AudioCut Example - Event 0217 shown below

You need to run weather at a certain time each day. If weather is named **40023**, you could make the entry shown below at event 0217 below. This would play 2:30 of commercials followed by the weather. NL8 only needs **&40023** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

Command Sequence Example - Event 0220 shown below

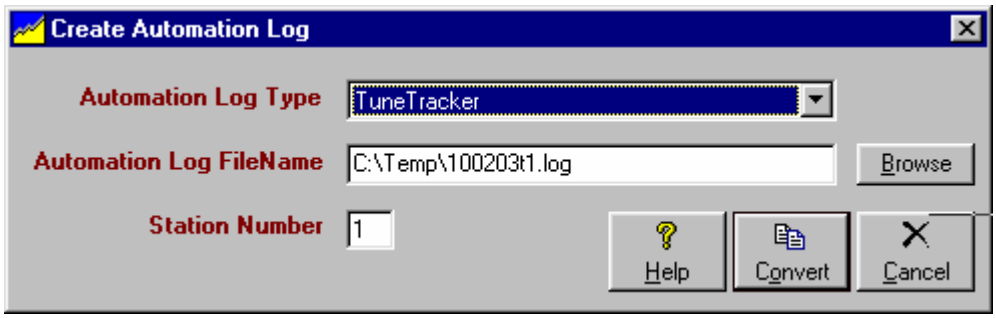
You may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 2001), then play a program (cut 2002), then play a closer (cut 2003). You could enter each item on a separate line, or you could make the entry shown below at event 0220 in the Natural Log Templates. Note that a single space is inserted between each command or cut and 'My Way Program' is an optional description.



10.30 TuneTracker™ Automation

This NL8 log interface exports a log in the format as specified in the "Default" log import settings in TuneTracker.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



Tune Tracker Cut Numbers

The TuneTracker system uses audio cut ID's from 1 to 8 alphanumeric characters. Enter the TuneTracker cut ID (including any leading 0's) into the NL8 "CopyID" field during order line entry.

Log Reconciliation is supported for TuneTracker

You must obtain the TuneTracker "As Run" log. Copy this log for the selected single date onto a floppy disc or to a folder on your LAN, and use the **[Convert-Log] [Reconcile Schedule-Log with Play-Log]** function in the **Log Editor** section of Natural Log, with the day's log loaded into the NL8 Log Editor. You will need to use the [Browse] button to point NL8 to the Play-Log. Natural Log will read the run times and print a discrepancy report.

Output & Input Log FileNames

Output (send) log file:

mmddyrT#.LOG	mm is month, dd is day, yr is year
110295T1.LOG	is Send Log 11-02-95 for station1

Input (reconcile) log file

ARmmddyy.txt	TuneTracker As-Run Log
AR110295.txt	

10.30 TuneTracker™ Automation (cont)

Automation Commands

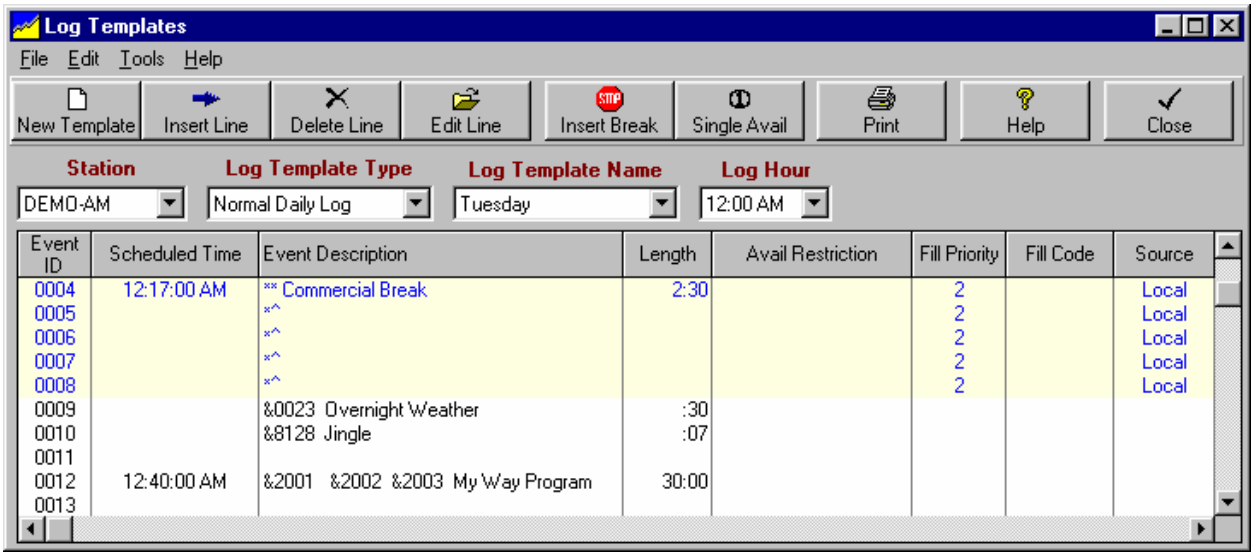
Commands can be sent to the automation (such as source switching) from the Natural Log system. On the Natural Log Templates, simply enter **&** and then the command code letter/numbers in the Event description. NL8 will pick up the command or cut name to play by capturing all characters between **&** and the first space in the event description.

Play Non-Commercial AudioCut Example - Event 0009 shown below

You need to run weather at a certain time each day. If weather is named **0023**, you could make the entry shown below at event 0009 below. This would play 2:30 of commercials followed by the weather. NL8 only needs **&0023** and we inserted "Overnight Weather" only to make it easier to read. Event 0010 plays a jingle cut 8128 after the weather. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

Command Sequence Example - Event 0012 shown below

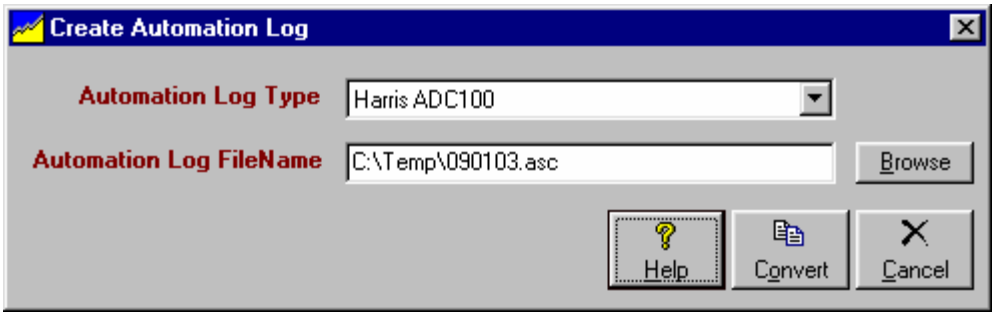
You may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 2001), then play a program (cut 2002), then play a closer (cut 2003). You could enter each item on a separate line, or you could make the entry shown below at event 0012 in the Natural Log Templates. Note that a single space is inserted between each command or cut and 'My Way Program' is an optional description.



10.31 Harris ADC100™ Automation

This NL8 log interface exports a log in the format as specified in the Harris Extended Flat ASCII format and requires the Harris log reader to be properly configured by Harris Automation Solutions.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



Harris ADC100 Cut Numbers

The Harris system can use any cut ID's up to 32 characters. Enter the Harris ID (including any leading 0's) into the NL8 "CopyID" field during order line entry.

Log Reconciliation is NOT supported for Harris ADC100

Output & Input Log FileNames

Output (send) log file:

mmddyr.asc	mm is month, dd is day, yr is year
110295.asc	is Send Log for 11-02-95

Input (reconcile) log file

Not Supported

10.31 Harris ADC100™ Automation (cont)

Automation Commands

Commands can be sent to the automation can be sent to the automation (such as type codes, secondary type codes, channel, and input #) from the Natural Log system. On the Natural Log Templates, enter the text shown below in the Event Description column. Be sure to put 1 space between the cc#### and the type.

&cc####-ss Type, SecType,Channel,Input#,Title

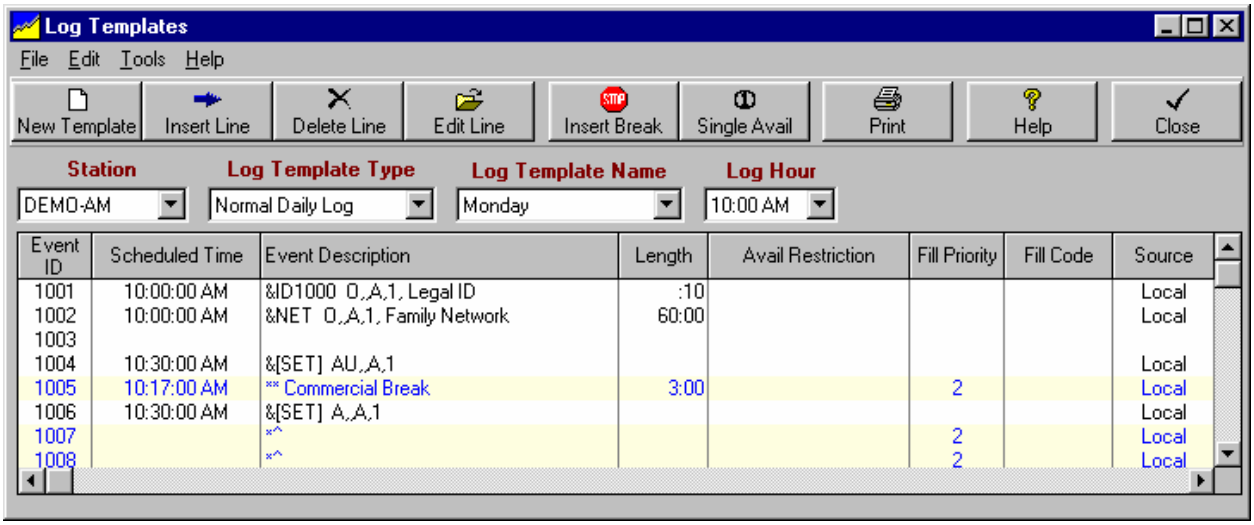
- **cc####** is the cutID
- **-ss** is the segment number only if needed with this event. If not needed, do not include the dash or the segment number.
- **Type** is the Harris event type
- **SecType** is the Harris secondary type
- **Channel** is the Harris channel A-D
- **Input#** is the Harris input# 1-4

When used with &, you may enter any combination of letters and numbers in the cutID. You need not restrict yourself to numbers when using **&**. The system will pick up the command or cut name to play by capturing all characters between **&** and the first space in the event name. You **must** enter **commas** even for those fields you aren't using such as SecType. NL counts the commas to determine which field is being entered.

Harris Command Example 1 Assume you need to play a cut named ID1000 as you top-of-the hour ID as a timed event. You could make entry shown below at event 1001 in the Natural Log Templates.

Harris Command Example 2 Assume you need to join a network at a particular time weather at a certain time each day. You could make entry shown below at event 1002 in the Natural Log Templates.

Setting Types on NL Commercial Items There may be situations in which you need to tell the Harris system to wait for a network pulse before starting a commercial break. Suppose you need to join a network and then set type AU on the first commercial in the break. Then you need the 2nd and 3rd spots in the break to be type A.. You could make entries shown below at event 1004 and 1006 in the Natural Log Templates. The only difference is the cutID is **[SET]**. This tells NL8 to apply the field values set on the [SET] line to the following commercial items until it sees another [SET] command.

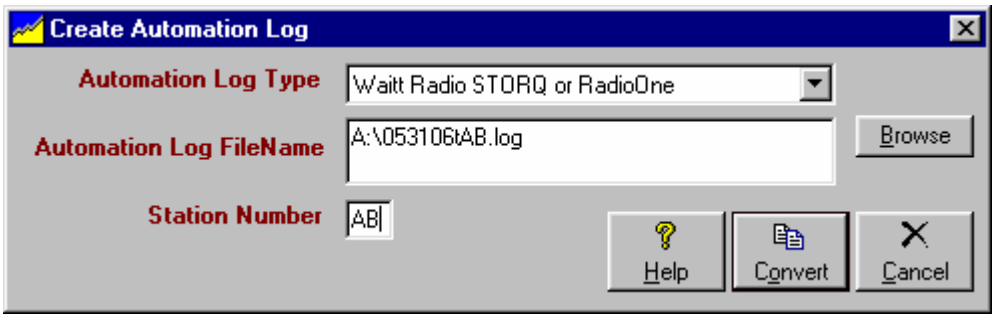


10.32 Waitt Radio™ / STORQ™ / RadioOne™ Automation

NOTE: This system requires a custom import filter that you must obtain (usually purchase) from the automation vendor. Natural Log creates a file in its "Generic" format as described in section 10.19.01 of this manual.

Waitt Radio Network's STORQ and RadioOne use the same interface file format. **The discussion below regarding Waitt Radio Network STORQ also applies to RadioOne**.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



Cut Numbers

The STORQ™ and RadioOne™ automation log export can use any cut numbers/names up to 8 digits of numeric and alphanumeric characters. Enter the STORQ cut ID (including any leading 0's) into the NL8 "CopyID" field during order line entry.

Log Reconciliation is Supported for STORQ Log

The Natural Log system reconciles with the STORQ "as-played" raw data [unfiltered] log. STORQ automatically creates this log. STORQ support personnel can assist you in finding this as-played log in your STORQ system. Once you initially point NL8 to this file, thereafter NL8 will remember where it is located.

We recommend you tell NL8 to only consider commercials [STORQ category = 2] when it reconciles with the as-played log generated by STORQ. On the NL8 log reconciliation screen, enter the STORQ category numbers to be included in the log scan [as defined in STORQ] separated by commas. For example to include Commercials [STORQ category 2] and PSA's [STORQ category 9] you would enter **2,9.** See your STORQ manual for category definitions.

Output & Input Log FileNames

Output (send) log file

mmddyyT#.LOG	mm is month, dd is day, yy is year
053106T1.LOG	is send log May 31,2006 for station1

Input (reconcile) log file

yymmddXX.YYL	where yymmdd is date, XX is the STORQ group, YY is the STORQ workstation address
060531F2.ABL	As-Played log for May 31 2006 for STORQ group F2, workstation AB.

10.32 Waitt Radio™ / STORQ™ / RadioOne™ Automation Log (cont)

Automation Commands

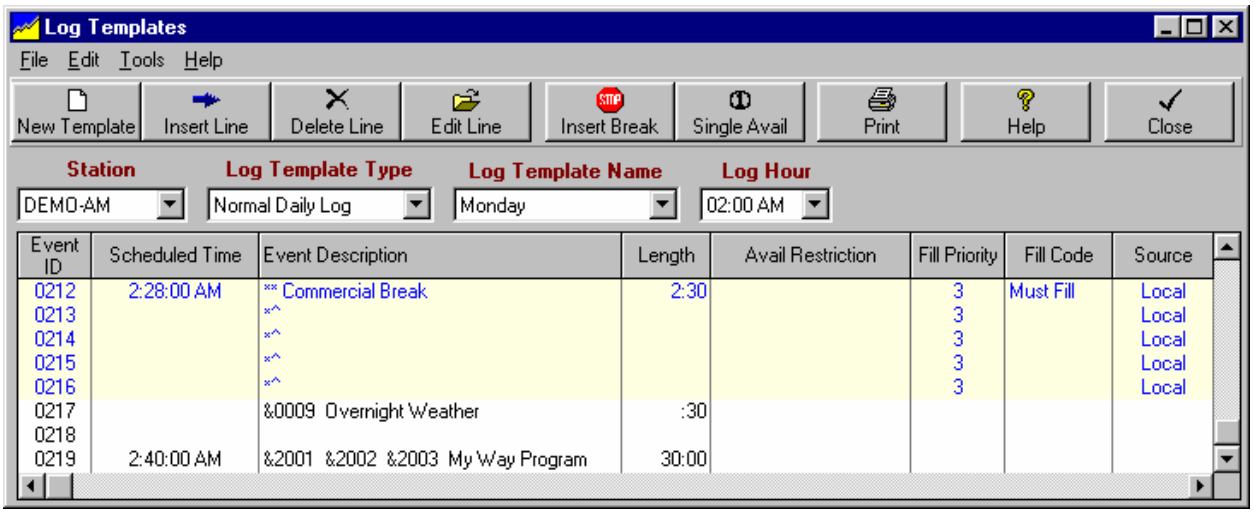
Natural Log can send commands to the automation (such as source switching) On the Natural Log Templates, simply enter **&** and then the command code letter/numbers in the Event description. NL8 will pick up the command or cut name to play by capturing all characters between **&** and the first space in the event description.

Play Non-Commercial AudioCut Example - Event 0217 shown below

Assume you need to run weather at a certain time each day. If weather is named **0009**, you could make the entry shown below at event 0217 below. This would play 2:30 of commercials followed by the weather. NL8 only needs **&0009** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

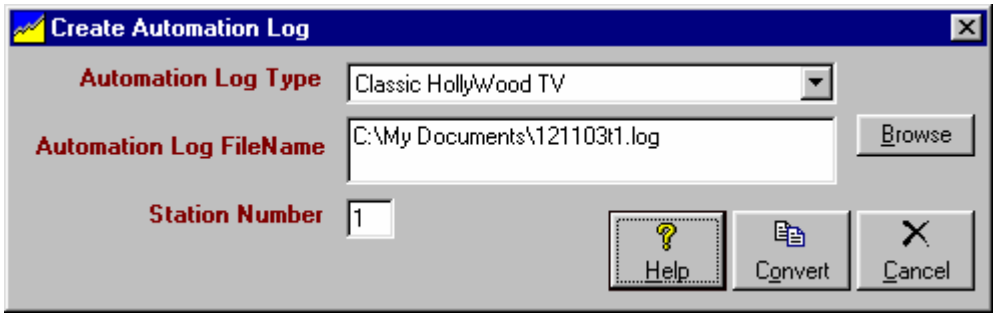
Command Sequence Example - Event 0219 shown below

Assume you may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 2001), then play a program (cut 2002), then play a closer (cut 2003). You could enter each item on a separate line, or you could make the entry shown below at event 0219 in the Natural Log Templates. Note that a single space is inserted between each command or cut and 'My Way Program' is an optional description.



10.33 Classic Hollywood TV Automation™

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log. NL8 converts to a "native" log format for this automation so the 'Generic Text' output log format is not used for this automation system log.



Cut Numbers

The Classic Hollywood Television™ Automation system [CHTV] can use any cut numbers/names up to 8 digits of numeric and alphanumeric characters. Enter the CHTV cut ID (including any leading 0's) into the NL8 "CopyID" field during order line entry.

Log Reconciliation is NOT supported for Class Hollwood Automation

Output & Input Log FileNames

Output (send) log file

mmddyrT#.LOG	mm is month, dd is day, yr is year
110295T1.LOG	is Send Log Nov 02 1995 for station1

Automation Commands

Natural Log can send commands to the automation (such as source switching) On the Natural Log Templates, simply enter **&** and then the command code letter/numbers in the Event description. NL8 will pick up the command or cut name to play by capturing all characters between **&** and the first space in the event description.

Play Non-Commercial AudioCut Example - Event 0217 shown on next page

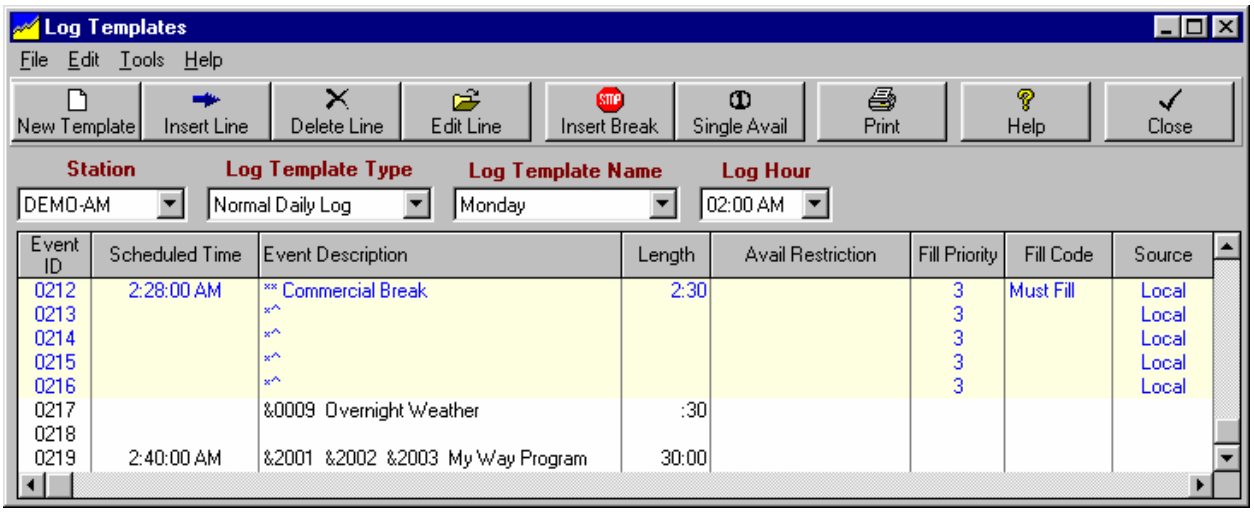
Assume you need to run weather at a certain time each day. If weather is named **0009**, you could make the entry shown below at event 0217 below. This would play 2:30 of commercials followed by the weather. NL8 only needs **&0009** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

Continued on next page

10.33 Classic Hollywood TV Automation™ (cont)

Command Sequence Example - Event 0219 shown on below

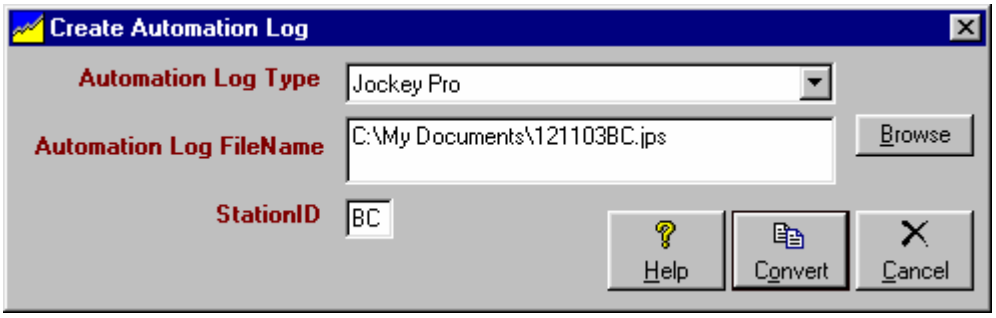
Assume you may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 2001), then play a program (cut 2002), then play a closer (cut 2003). You could enter each item on a separate line, or you could make the entry shown below at event 0219 in the Natural Log Templates. Note that a single space is inserted between each command or cut and 'My Way Program' is an optional description.



Event ID	Scheduled Time	Event Description	Length	Avail Restriction	Fill Priority	Fill Code	Source
0212	2:28:00 AM	** Commercial Break	2:30		3	Must Fill	Local
0213		*^			3		Local
0214		*^			3		Local
0215		*^			3		Local
0216		*^			3		Local
0217		&0009 Overnight Weather	:30				
0218							
0219	2:40:00 AM	&2001 &2002 &2003 My Way Program	30:00				

10.34 - JockeyPro Automation

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log. NL8 converts to a "native" JockeyPro log format so the 'Generic Text' output log
format is not used for this automation system log.



JockeyPro Cut Numbers

The JockeyPro system can use any cut numbers/names. NL8 is limited to cut names of up to 20 characters and / or numbers. Enter the JockeyPro cut ID (including any leading 0's) into the NL8 "CopyID" field during order line entry.

Log Reconciliation is Supported for JockeyPro

The Natural Log system reconciles with a Jockey "as-played" log. JockeyPro support can assist you in creating this as-played reconciliation log.

Output & Input Log FileNames

Output (send) log file

mmddyr??.jps	mm is month, dd is day, yr is year ?? is the right 2 characters of the call sign. This is entered in the StationID field on the automation conversion screen in NL8.
110295BC.JPS	is Send Log Nov 02 1995 for xxBC

Reconcilation (read) log file

mmddyr??.log	mm is month, dd is day, yr is year ?? is the right 2 characters of the call sign. This is entered in the StationID field on the automation conversion screen in NL8
110295BC.LOG	is reconcile log Nov 02 1995 for xxBC

Continued on next page

10.34 - JockeyPro Automation (cont)

Automation Commands

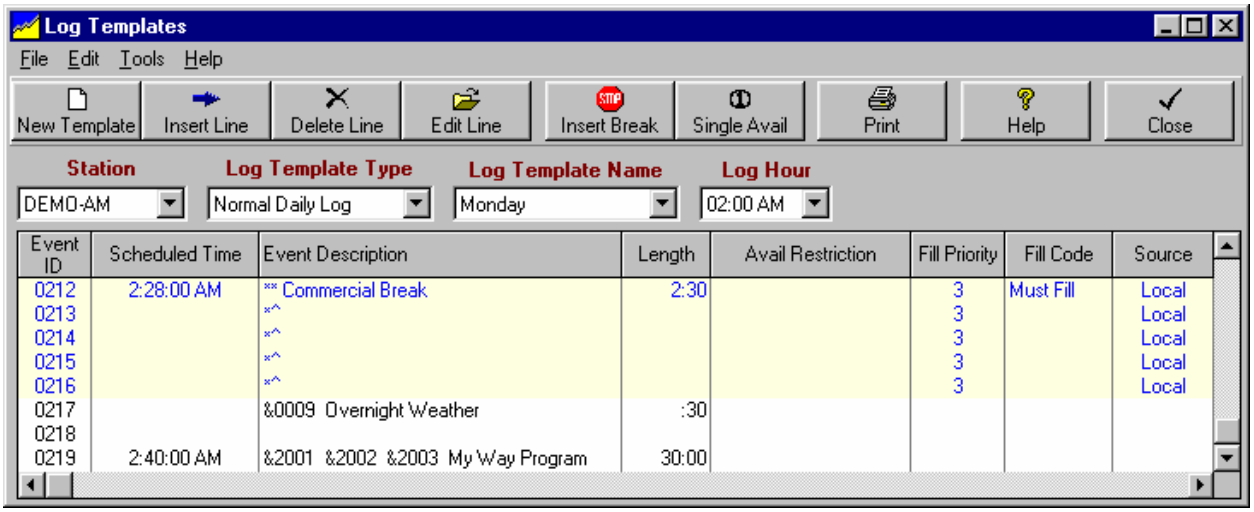
Natural Log can send commands to the automation (such as source switching) On the Natural Log Templates, simply enter **&** and then the command code letter/numbers in the Event description. NL8 will pick up the command or cut name to play by capturing all characters between **&** and the first space in the event description.

Play Non-Commercial AudioCut Example - Event 0217 shown below

Assume you need to run weather at a certain time each day. If weather is named **0009**, you could make the entry shown below at event 0217 below. This would play 2:30 of commercials followed by the weather. NL8 only needs **&0009** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

Command Sequence Example - Event 0219 shown below

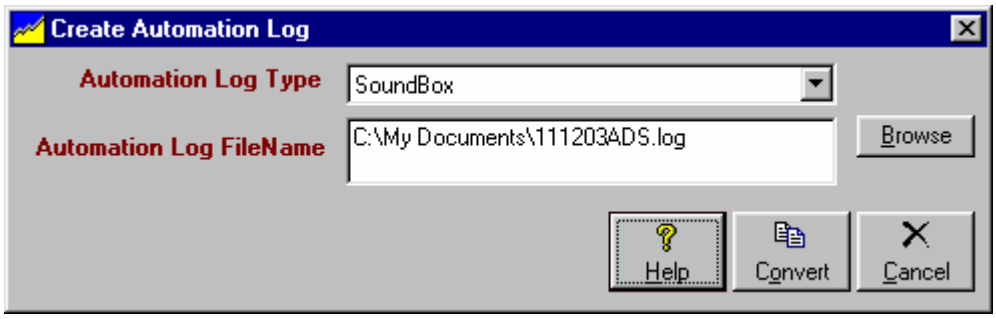
Assume you may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 2001), then play a program (cut 2002), then play a closer (cut 2003). You could enter each item on a separate line, or you could make the entry shown below at event 0219 in the Natural Log Templates. Note that a single space is inserted between each command or cut and 'My Way Program' is an optional description.



10.35 - SoundBox Automation

NOTE: This output log is in the Generic Text [NL8-Windows Format] [see section 10.19.01]. Before it can be imported into SoundBox it MUST be merged with a music log created by Natural Music or another music scheduler, which then creates the actual merged log in the SoundBox log format.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log. NL8 converts to a "native" JockeyPro log format so the 'Generic Text' output log
format is not used for this automation system log.



SoundBox Cut Numbers

The SoundBox system can use any cut numbers/names. NL8 is limited to cut names of up to 20 characters and / or numbers. Enter the SoundBox cut ID (including any leading 0's) into the NL8 "CopyID" field during order line entry. This output file is described in section 10.19.01 "Generic Text [NL8-Windows format].

Log Reconciliation is Not Supported for SoundBox

Output & Input Log FileNames

Output (send) log file

ddmmyr.ADS	dd is day, mm is month, yr is year
021195.ADS	is Send Log Nov 02 1995 for xxBC

Automation Commands

Natural Log can send commands to the automation (such as source switching) On the Natural Log Templates, simply enter **&** and then the command code letter/numbers in the Event description. NL8 will pick up the command or cut name to play by capturing all characters between **&** and the first space in the event description.

Play Non-Commercial AudioCut Example - Event 0217 shown below

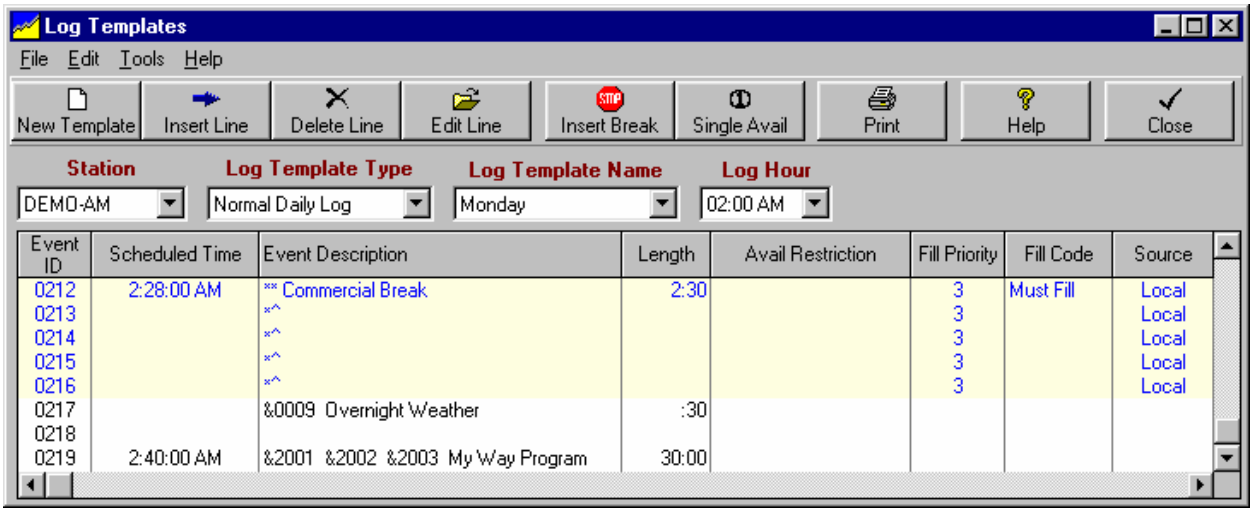
Assume you need to run weather at a certain time each day. If weather is named **0009**, you could make the entry shown below at event 0217 below. This would play 2:30 of commercials followed by the weather. NL8 only needs **&0009** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3.**

Continued on next page

10.35 - SoundBox Automation (cont)

Command Sequence Example - Event 0219 shown below

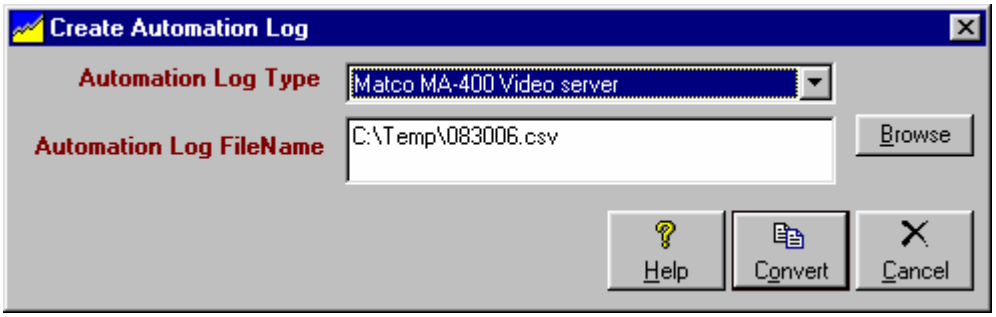
Assume you may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 2001), then play a program (cut 2002), then play a closer (cut 2003). You could enter each item on a separate line, or you could make the entry shown below at event 0219 in the Natural Log Templates. Note that a single space is inserted between each command or cut and 'My Way Program' is an optional description.



10.36 Matco™ Automation

This NL8 log interface exports a log in the format as specified by Matco for the Matco Playback Event List. This creates a .CSV file.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



Matco Video Cut ID's

The Matco system can use any cut ID's up to 8 characters. Enter the Matco ID into the NL8 "CopyID" field during order line entry. In all cases NL8 assumes the digital server event is an Element ID unless you enter the following prefix in before the CopyID:

E- precedes an element ID [assumed if E- is not included in copyID]
B- precedes a Sequence ID
V- preceeds a Virtual Element ID

CopyID Examples:
1234 is video element ID 1234
E-1234 is video element ID 1234
B-1234 is Sequence ID 1234
V-1234 is Virtual Element ID 1234

The Harris system can use any cut ID's up to 32 characters. Enter the Harris ID (including any leading 0's) into the NL8 "CopyID" field during order line entry.

Log Reconciliation is NOT supported for Matco Video Servers

Output & Input Log FileNames

Output (send) log file:
mmddyr.csv mm is month, dd is day, yr is year
110295.csv is Send Log for 11-02-95

Input (reconcile) log file
Not Supported

10.36 Matco Automation (cont)

Automation Commands

Commands can be sent to the automation can be sent to the automation (such as type codes, secondary type codes, channel, and input #) from the Natural Log system. On the Natural Log Templates, enter the text shown below in the Event Description column. Be sure to put 1 space between the cut number and the other description.

To play a video file from the Matco server:

&CutNum Description

CutNum can include the **E-**, **B-**, or **V-** as described above under "Matco Digital Server Cut ID's". If you exclude the **E-**, **B-**, or **V-**, NL8 assumes this is an Element ID and will insert the required E- during log conversion.

To execute a Matco Switcher command:

&[S] #,,Description

Where # is the switcher input source #

To execute a Matco VTR command:

&[S] #,hh:mm:ss,Description

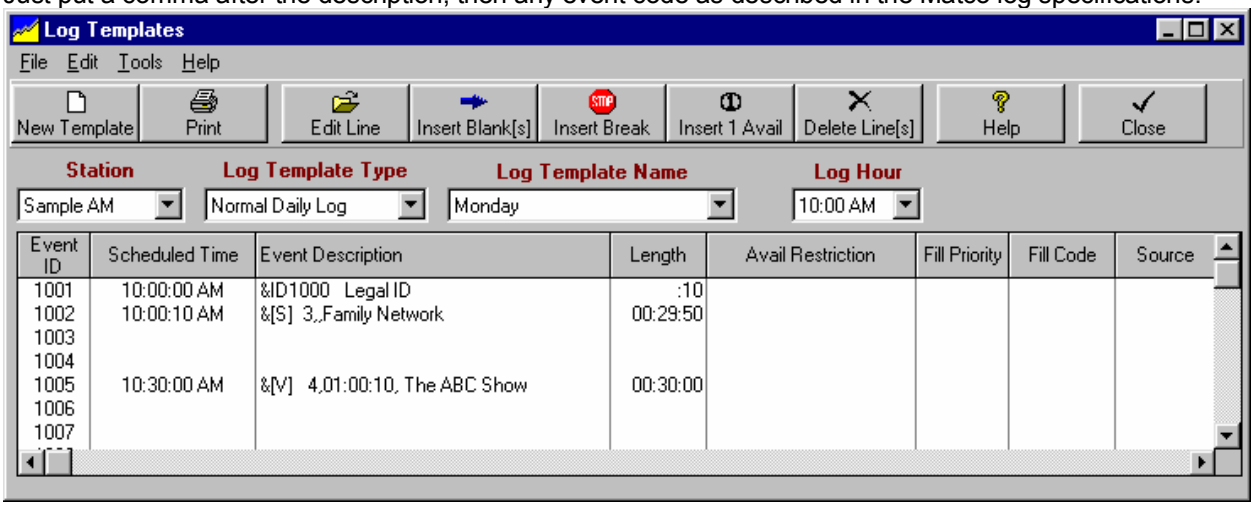
Where # is the switcher input source #, hh:mm:ss is the VTR **location.** You may optionally include frames as hh:mm:ss:ff

Matco Command Example 1 Assume you need to play a cut named ID1000 as your top-of-the hour ID as a timed event at 10:00:00AM. You could make the entry shown below at event 1001 in the Natural Log Templates.

Matco Command Example 2 Assume you need to join a network assigned to switcher input #3 after the legal ID for 29 minutes and 50 seconds. You could make the entry shown below at event 1002 in the Natural Log Templates.

Matco Command Example 3 Assume you need to play VTR #4 at 10:30:00AM, and the location on the VTR is 01:00:10. You could make entry shown below at event 1005 in the Natural Log Templates.

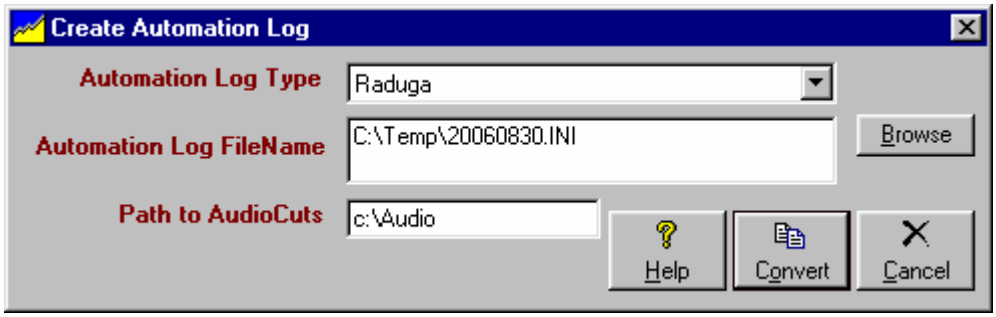
NOTE: On commands, Event_Code is optional and can accept any text as described in the Matco specs. Just put a comma after the description, then any event code as described in the Matco log specifications.



10.37 Raduga™ Automation Log

NL8 can create a standard INI file containing instructions for playing audio cuts in Raduga.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



Cut Numbers / Copy ID

The Natural Log system can only use any cut numbers up to 20 alphanumeric characters [including any extension such as .mp3, .wav] . Be sure to include the .mp3, .wav or other extensions when entering the CopyID in NL8 during order line entry.

If the complete path, filename, and extension is 20 characters or less, you can enter the entire path and filename with extension for the audio cut in the NL8 CopyID field during order line entry.

If your audio cut path, filename, plus extensions are greater than 20 characters, you must not enter the path in the CopyID field in NL8, leave off the path and just enter the filename and extension. Then when the Log Conversion is done in the NL8 Log Editor, you can specify the path to be added in front of the filenames.

As an example, assume you keep your audio cuts in a folder named Audio on your C drive and they all have .mp3 extensions. If you enter **C:\Audio** as the path to your audio cuts, NL8's log converter will add this as the path to all your audio files names (CopyID's). **When using this option, all your audio files must reside in the same folder**.

Log Reconciliation is supported for Raduga.

It is the user's responsibility to obtain a LOG file from Raduga using the Raduga Tools menu. NL8 can then reconcile played items against scheduled items and record actual runtimes for affidavits.

Output & Input Log FileNames

Output (send) log file

yyyymmdd.INI	where yyyy=year mm=month, dd=day
19951102.INI	is the schedule for 11-02-95

Input (reconcile) log file

yyyy-mm-dd.LOG	where yyyy=year mm=month, dd=day
1995-11-02.LOG	is the playback log for 11-02-95

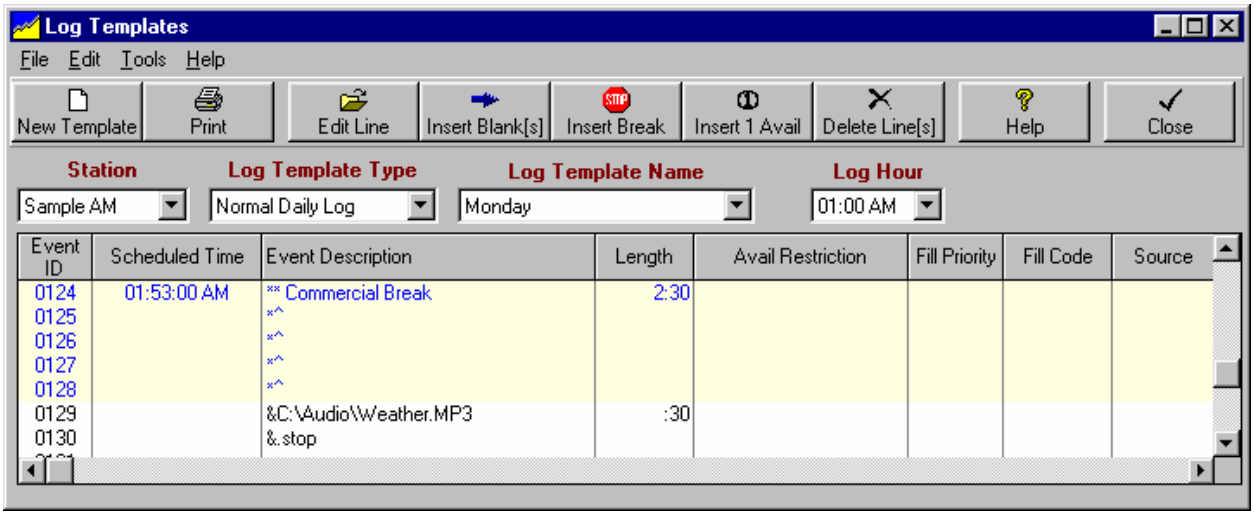
10.37 Raduga™ Automation Log (cont)

Automation Commands

Commands can be sent to the automation (such as source switching, playing liners, etc.) from the Natural Log system. On the Natural Log Templates simply enter **&** and then the full pathname, filename (including extension) in the Event description. NL8 system will pick up the command or cut name to play by capturing all characters after the &.

Play Non-Commercial Audio Cut Example Assume you want to play a cut named C:\Audio\Weather.mp3. You would enter this in the NL log templates as shown on event 0129 below. **Do not use this to schedule billable spots. Those are scheduled from** broadcast orders.

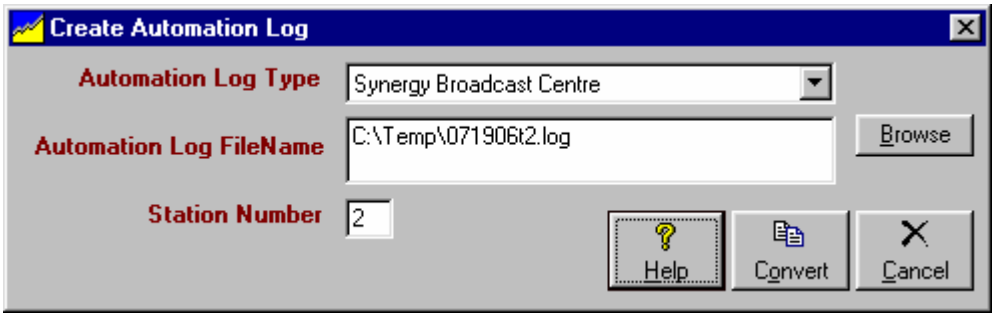
Execute a Raduga Command Assume you want to stop playback. This is done by inserting **.stop** as the filename in Raduga. This can be done in NL8 log templates as shown below on event 0130. Note there are no spaces between **&** and the command. This will work with any Raduga commands.



10.38 Synergy™ Automation Log File

This Natural Log interface exports and reconciles a log in the format as specified by the Synergy Broadcast Centre developers.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



Synergy Cut Numbers

The Synergy Broadcast Centre can use any cut alphanumeric cut numbers/names up to 20 characters. All you need to do is enter the Synergy cut number for the particular commercial spot into the "CopyID" field (on the Order Line entry screen) in the Natural Log system when entering the orders. Make sure the number in NL8 matches the number in Synergy.

Log Reconciliation is supported for Synergy

The Natural Log does read exact run times from the Synergy Traffic Reconciliation Log. Copy this file onto a floppy disc or to a folder on your LAN, and use the **[Convert-Log] [Reconcile Schedule-Log with Play-Log]** function in the **Log Editor** section of Natural Log, with the day's log loaded into the NL8 Log Editor. You will need to use the [Browse] button to point NL8 to the Play-Log. Natural Log will read the run times and print a discrepancy report.

Output & Input Log FileNames

Output (send) log file

mmddyyT#	yy=year, mm=month, dd=day, #=station
110295T#.LOG	is Send Log for 11-02-95 station 1

Input (reconcile) log file

mmddyyT#.LST	yy=year, mm-month, dd=day, #=station
110295T1.LST	is Play Log for 11-02-95 station 1

Synergy Commands

Automation Commands can be sent to the Synergy from the Natural Log system. On the Natural Log Templates, simply enter **&** and then the command code letter/numbers in the Event description. NL8 will pick up the command or cut name to play by capturing all characters between **&** and the first space in the event description.

Continued on next page

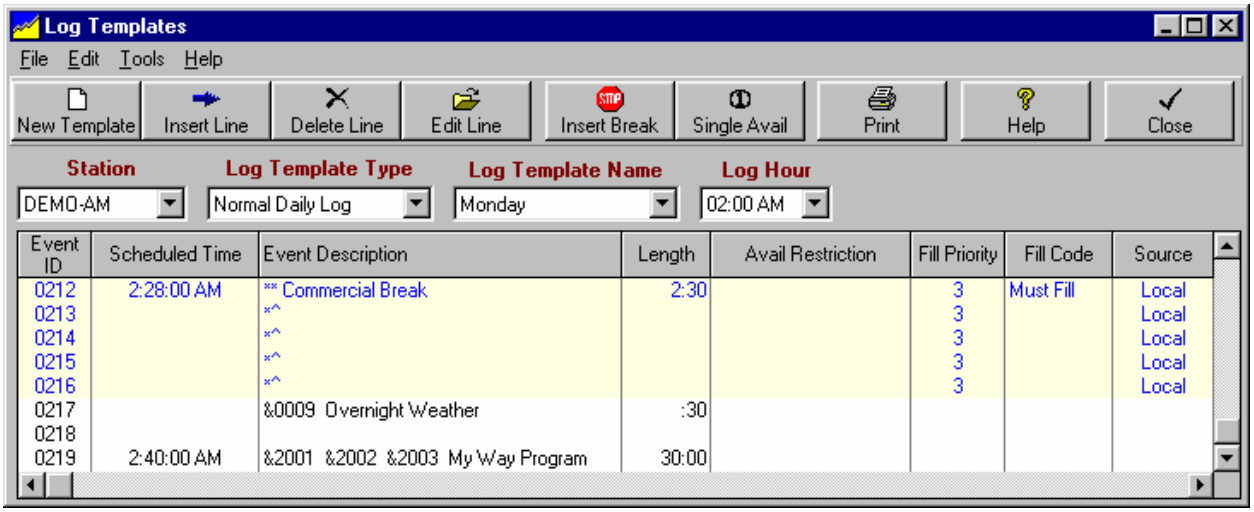
10.38 Synergy™ Automation Log (cont)

Play Non-Commercial AudioCut Example - Event 0217 shown below

Assume you need to run weather at a certain time each day. If weather is named **0009**, you could make the entry shown below at event 0217 below. This would play 2:30 of commercials followed by the weather. NL8 only needs **&0009** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3.**

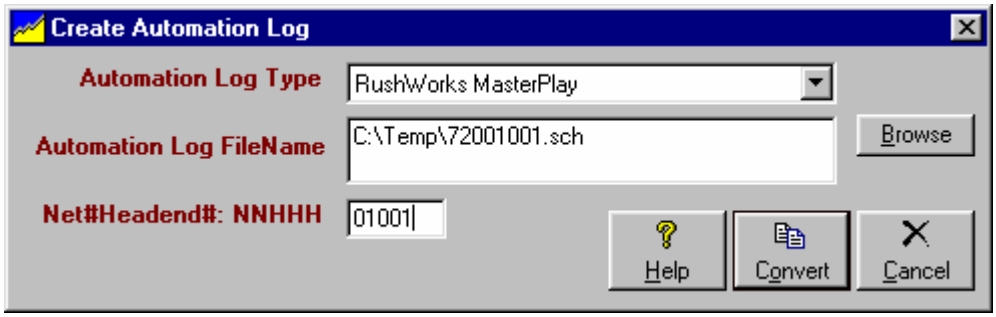
Command Sequence Example - Event 0219 shown below

Assume you may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 2001), then play a program (cut 2002), then play a closer (cut 2003). You could enter each item on a separate line, or you could make the entry shown below at event 0219 in the Natural Log Templates. Note that a single space is inserted between each command or cut and 'My Way Program' is an optional description.



10.39 RushWorks MasterPlay Automation

This Log interface exports and reconciles a log in the format as specified by the RushWorks MasterPlay developers. Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



MasterPlay Cut Numbers

The MasterPlay system uses 11 digit cut numbers which complies with Natural Log's numbering system [any alpha and/or numeric characters can be included]. Therefore you simply enter the 11 digit MasterPlay Spot Identification number into the CopyID field when entering Order Lines in Natural Log. Make sure the number in our system matches the number in MasterPlay.

Log Reconciliation is Supported for MasterPlay

You will need to obtain a "Verification log" in the "Wide Orbit format" from MasterPlay named in the format ccccc_YYYYMMDD.ARL. See your MasterPlay user manual to find this verification log.

Output & Input Log FileNames

Output (send) log file

MDDccccc.SCH	M=#,10=A,11=B, 12=C DD=day of month, ccccc is Station or Channel
902DT001.SCH	is send Log for Sept 02 for net/headend DT001

Input (reconciliation/verification) file

ccccc_YYYYMMDD.ARLMM=month#, DD=day, YYYY=Year, ccccc is Station or Channel

DT001_20030902.ARL	is verification log for Sept 02 , 2003 for net/headend DT001

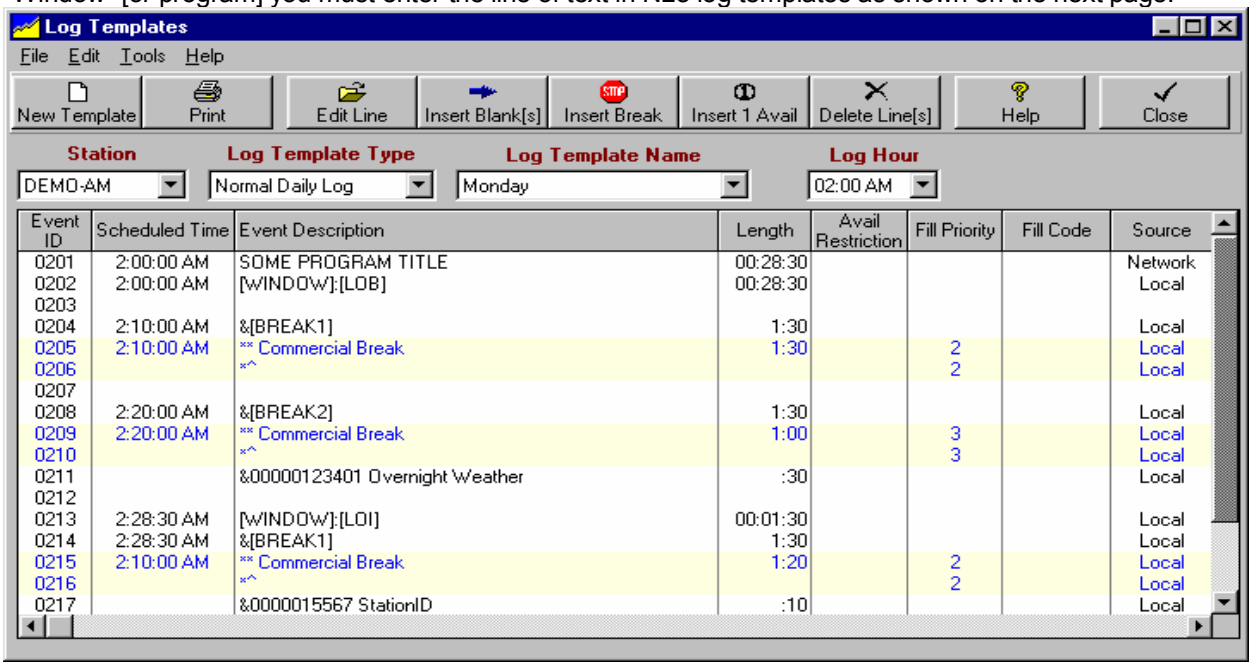
MasterPlay Break Numbers

The MasterPlay works with breaks within "Windows". Each break is numbered sequentially within a time Window in which it may play. If you don't explicitly set a break number, break 000 is assumed. The time "Window" usually corresponds to a program. You can, if you desire set up one Window for the full day [length as 23:59:00] but this is not recommended. It is best to set a new Window for each program to make sure the spots for that program run within that program. Also you MUST enter the "EventType" for that Window. This tells Masterplay how each item is to start within that Window. We are aware of 3 standard EvetTypes which can be mapped within Masterplay [though you can map new ones within Masterplay and NL will recognize them]. Just place them after the [WINDOW] followed by a colon : then the EventType within brackets example **[WINDOW]:[LOB]** (no BLANK SPACES!)

- **LOI** Just play after prior event [such as a long program or sequence of events to ne played]
- **LOB** Part of a network triggered local break
- **LOC** Part of e time-triggered local break

10.39 RushWorks MasterPlay (cont)

[Continued from previous page] Natural Log allows you to set up only those breaks you want to use in the Natural Log Templates. You need a way to identify the MasterPlay "Windows" and "Break numbers" into which the spots are to be inserted when the log conversion is done. Therefore, at the beginning of each new "Window" [or program] you must enter the line of text in NL8 log templates as shown on the next page.



Event ID	Scheduled Time	Event Description	Length	Avail Restriction	Fill Priority	Fill Code	Source
0201	2:00:00 AM	SOME PROGRAM TITLE	00:28:30				Network
0202	2:00:00 AM	[WINDOW]:[LOB]	00:28:30				Local
0203							
0204	2:10:00 AM	&[BREAK1]	1:30				Local
0205	2:10:00 AM	** Commercial Break	1:30		2		Local
0206		*^			2		Local
0207							
0208	2:20:00 AM	&[BREAK2]	1:30				Local
0209	2:20:00 AM	** Commercial Break	1:00		3		Local
0210		*^			3		Local
0211		&00000123401 Overnight Weather	:30				Local
0212							
0213	2:28:30 AM	[WINDOW]:[LOI]	00:01:30				Local
0214	2:28:30 AM	&[BREAK1]	1:30				Local
0215	2:10:00 AM	** Commercial Break	1:20		2		Local
0216		*^			2		Local
0217		&0000015567 StationID	:10				Local

Note: You must enter the length of the Window in the length column in the format HH:MM:SS. For example, 00:28:30. Then before each "Commercial Break" on the Natural Log Template, you need to tell it a MasterPlay "Break Number" within the defined Window. This can be **&[BREAK1]** through **&[BREAK999].** The **Some Program Title** on line 0201 isn't needed but **[Window]:[LOB]** command on line 0202 is required to define a window. LOB tells Masterplay that the Window' break events start by network trigger.

The event description **&[BREAK1]** tells Natural Log to insert any spots in the following avails into break #1 of the currently defined window in the 2AM hour in MasterPlay. Windows is defined on event 0202

&[BREAK2] would send them to break 2, and so on. If Natural Log has an "if used" break which is not needed, it won't fill the break with anything. If no spots get logged into the avails immediately following the break number line, the break is "skipped" in MasterPlay. In this way optional breaks can be set up in the log formats but skipped when not needed.

MasterPlay Commands

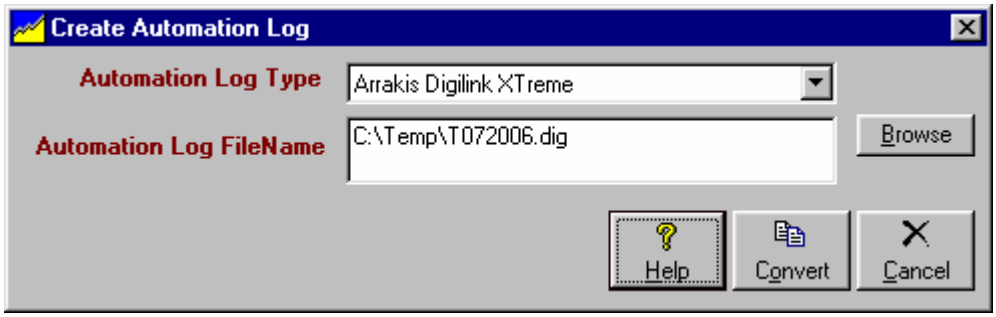
Automation commands can be sent to the MasterPlay (such as to play a specific audio cut or source switching) from Natural Log. On the Natural Log Templates, simply enter **&** and then the command code letter/numbers in the Event description. NL8 will pick up the command or cut name to play by capturing all characters between **&** and the first space in the event description.

Play Non-Commercial AudioCut Example Assume you need to run weather at a certain time each day. If weather is named **00000123401**, you could make the entry shown above at event 0211 above. This would play 1:00 of commercials followed by the weather all part of a 1:30 break from the network and it would be triggered by network since [LOB] is event type for this window as shown on event 0202. NL8 only needs **&00000123401** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from** broadcast orders.

10.40 Arrakis Digilink XTreme™

NL8 converts to the native Digilink Xtreme log format so the 'Generic Text' output log format is not used for this automation system logs.

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



Digilink Xtreme Cart Numbers

Digilink can use any numeric or alphanumeric cut up to 8 characters to identify its audio cuts. NL8 can handle any valid Diglink audio cut identifier so all you need to do is enter the Digilink cut identifier for the particular commercial spot into the "CopyID" field on the NL8 Order Line entry screen.

Log Reconciliation is supported for Digilink XTReme

Copy the Play Log onto a floppy disc or to a folder on your LAN, and use the **[Convert-Log] [Reconcile Schedule-Log with Play-Log]** function in the **Log Editor** section of Natural Log, with the day's log loaded into the NL8 Log Editor. You will need to use the [Browse] button to point NL8 to the Play-Log. Natural Log will read the run times and print a discrepancy report.

Output & Input Log FileNames

Output (send) log file

Tmmddyr.DIG	mm is month, dd is day, yr is year
T110295.DIG	is Send Log for 11-02-95

Input (reconcile) Play log file

mmddyrA.DIG	mm is month, dd is day, yr is year
110295A.DIG	is Play Log for 11-02-95

NOTE: This "Play Log" must be exported from the Digilink Xtreme with only 1 day's play items. See "Logging" in chapter 8 of the Digilink Xtreme manual.

10.40 Arrakis Digilink™ XTReme (cont)

Digilink Xtreme Commands

Text commands can be sent to the Digilink (such as source switching) from the Natural Log system. On the Natural Log Template simply enter **&** and then the command code letter/numbers in the Event description. NL8 will pick up the command or cut name to play by capturing all characters between **&** and the first space in the event description. You may also enter more than one command per line, just enter a space between each command, and start each command with **&**.

There are certain commands that can or must be sent to Digilink Xtreme from NL8. These are entered in the **Event Description** column of the NL8 log templates. These must be entered exactly as shown below:

&TIMED	The next event in the NL8 log is and event that starts play at a given time
&DROP	The next event is a Drop event.
&BREAK or &BRK	This begins a manual break that is scheduled at the end of the porevious event.
&TBREAK or &TBRK	This begins a timed break that is triggered at the start time of the break. If used in satellite mode &TBREAKS need a runtime [length].
&FBREAK or &FBRK	This begins a manual floating break that may be triggered by a satellite nerwork closure. If used in satellite mode &FBREAKS need a runtime [length].
&NOTE	This is some text you want to display in the Digilink log but plays nothing.
&SO## or &SOURCE##	This switches to a source. Replace ## with a 2-digit source number.
&BSAT	Begins Satellite mode. You must enter this formatted as follows in the NL8 Event Description in the log template: **&BSAT SS JJ S VVV** SS is the 2 digit source, JJ is the 2 -digit Jock number, VVV is the 3-digit variance as defined in Digilink Xtreme. Put exactly 1 space between each entry.

&ESAT End Satellite mode.

Digilink BREAKS

Digilink Xtreme requires Break Markers in NL8 log templates before each break so it knows where to load the items for that break. These are the &FBREAKS, &TBREAKS, and &BREAKS as described above. See example below.

Digilink Play Cut Example - Event 0107 shown below

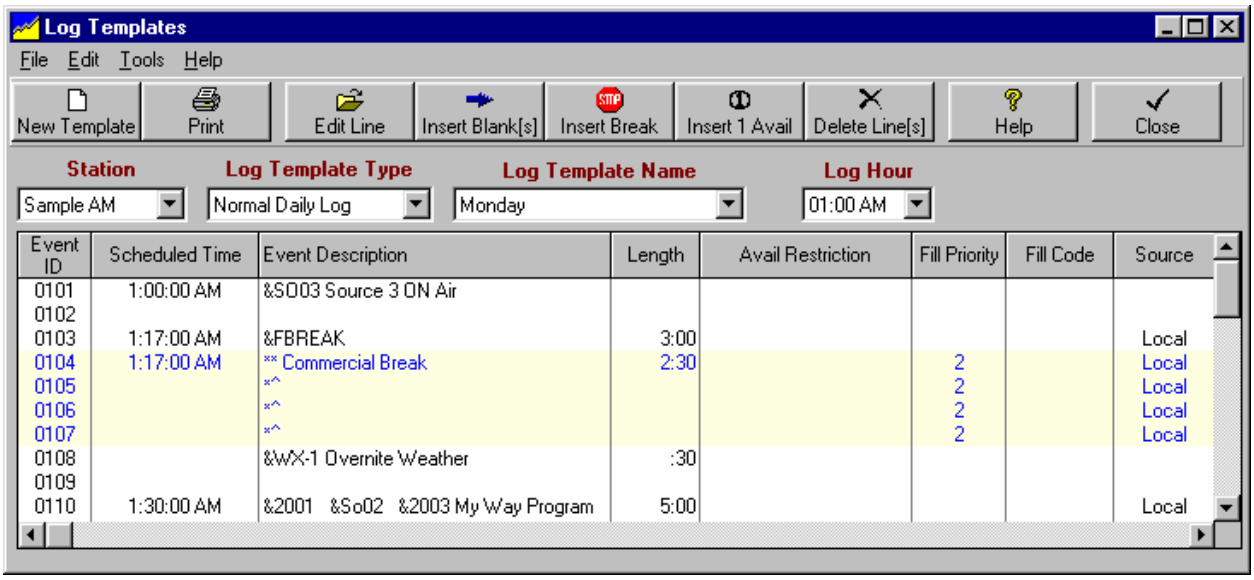
Assume you may need to run the non-commercial weather audio named WX-1 at certain times each day as part of a 3:00 commercial break. The entry starting at 0103 through 0106 would play 2:30 of commercials followed by the weather on event 0107. Note that the length of the commercial break listed was reduced by the length of the weather. Once again, DigiLink only needs the **&WX-1** and we inserted "Overnight Weather"only to make it easier to read for humans. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

Digilink Command Example - Event 0101 shown below

The command to switch to source 3 may be code "So3" in the Digilink. You would enter this as **&So3** in the event description column in the NL8 Log Templates. This will work with any of the Digilink commands, just use the **&** when entering the event description on the Natural Log Template. In this example, we included `Source3 ON' only to make it readable to humans. Digilink only needs **&So3**.

Digilink Command Sequence Example - Event 0110 shown below

You may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 2001), then switch to Source 2, then play a closer (cut 2002). You could enter each item on a separate line, or you could make the following entry in the Natural Log Templates.

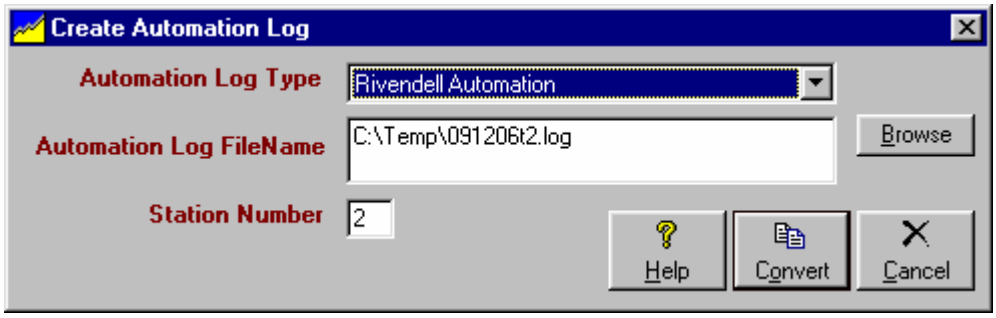


Event ID	Scheduled Time	Event Description	Length	Avail Restriction	Fill Priority	Fill Code	Source
0101	1:00:00 AM	&SO03 Source 3 ON Air					
0102							
0103	1:17:00 AM	&FBREAK	3:00				Local
0104	1:17:00 AM	** Commercial Break	2:30		2		Local
0105		*^			2		Local
0106		*^			2		Local
0107		*^			2		Local
0108		&WX-1 Overnite Weather	:30				
0109							
0110	1:30:00 AM	&2001 &So02 &2003 My Way Program	5:00				Local

10.41 Rivendell™ Automation

NOTE: Rivendell users will need to configure the Traffic Data Import settings in Rivendell as shown on the next page.

This Log interface exports and reconciles a log in the format as specified by the Rivendell developers. Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



Rivendell Cart Numbers

NL8 can use any cart number used in Rivendell. [Be sure to check your Rivendell documentation for limits on valid Rivendell cart numbers.]Make sure the CopyID number entered on the Broadcast Order in NL8 system exactly matches the cart number in the Rivendell system exactly

Log Reconciliation is Supported for Rivendell

You will need to obtain an "As Played Report " from Rivendell named in the format MMDDYY.TXT. See your Rivendell user manual to find this verification log report.

Copy the Play Log onto a floppy disc or to a folder on your LAN, and use the **[Convert-Log] [Reconcile Schedule-Log with Play-Log]** function in the **Log Editor** section of Natural Log, with the day's log loaded into the NL8 Log Editor. You will need to use the [Browse] button to point NL8 to the Play-Log. Natural Log will read the run times and print a discrepancy report.

Output & Input Log FileNames

Output (send) log file

mmddyrT#.LOG	mm is month, dd is day, yr is year
110295T1.LOG	Send Log for 11-02-95 station # 1

Input (reconcile) log filename Rivendell Play Report

mmddyy.txt	mm is month, dd is day, yr is year
110295.txt	Read Log for 11-02-95

Configure the Rivendell Traffic Data Import

The Rivendell system interface must be configured to read the Natural Log data in the following format using **RDAdmin=>ManageServices=>ServiceName=>Edit Services** in Rivendell.

Field	Offset	Length
Cart Number	9	8
Title	19	40
Start Time-Hours	0	2
Start Time-Minutes	3	2
Start Time-Seconds	6	2
Length - Hours	61	2
Length - Minutes	64	2
Length - Seconds	67	2
All Other Fields	0	0

Rivendell Commands

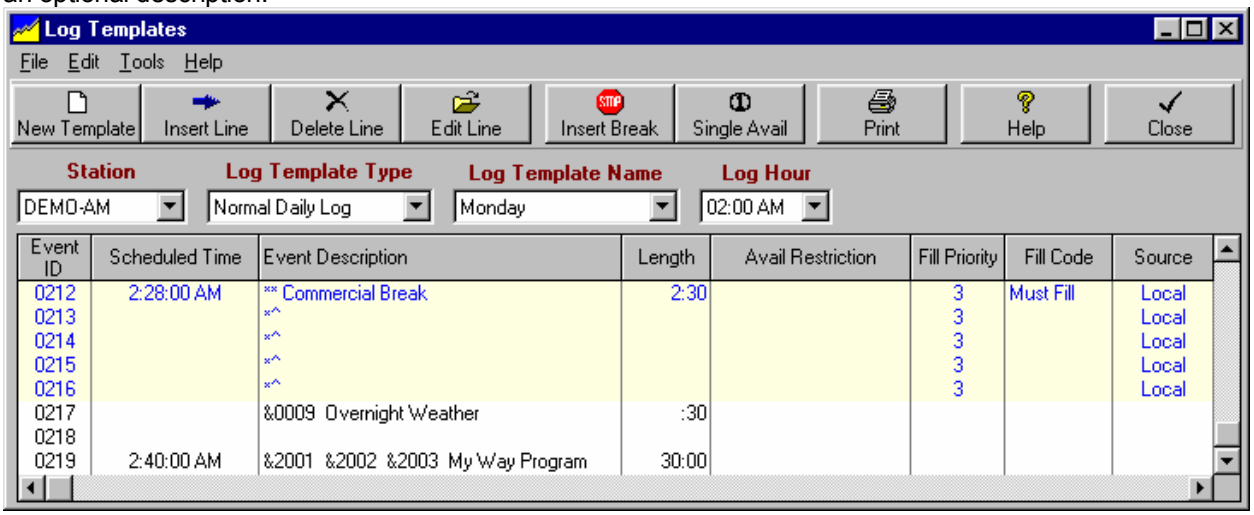
You can also use **&** to play an audio cut from the Log Format for non-billable items. Just enter **&** followed immediately (no spaces) by the audio cut number as the event description in the Natural Log Template Setup (**&####**). This is useful for scheduling weather, jingles, ID's, etc.

Play Non-Commercial AudioCut Example - Event 0217 shown below

Assume you need to run weather at a certain time each day. If weather is named **0009**, you could make the entry shown below at event 0217 below. This would play 2:30 of commercials followed by the weather. NL8 only needs **&0009** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

Command Sequence Example - Event 0219 shown below

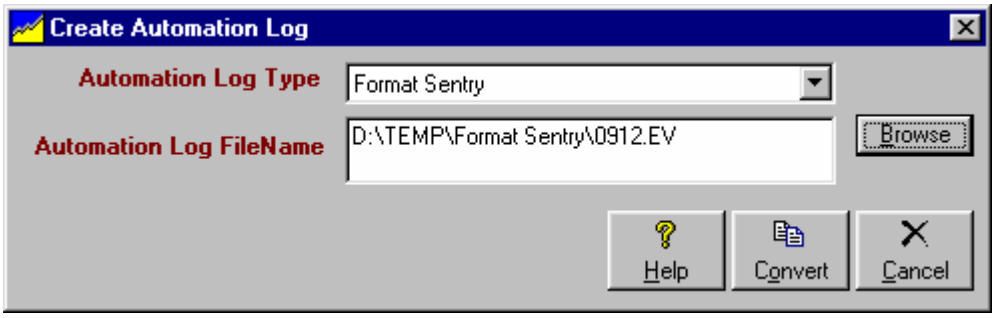
Assume you may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 2001), then play a program (cut 2002), then play a closer (cut 2003). You could enter each item on a separate line, or you could make the entry shown below at event 0219 in the Natural Log Templates. Note that a single space is inserted between each command or cut and 'My Way Program' is an optional description.



10.42 Format Sentry™ Automation

NL8 converts to the native Format Sentry EV file format. In this event file here are 2400 slots, 100 per hour, exactly the same as NL8 has in each hour of its log templates. When creating the NL8 log templates, the event ID's **DO** control into which slots the spots are inserted. For example, if you set a commercial avails slot at event 1210, any spot scheduled into that slot will be placed in the Format Sentry event log at event 1210. [Event 10 in the 12 noon hour]. Keep in mind if you are using a music scheduler, the events used in the NL8 log template must be blank in the music log.

At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



Format Sentry Cut Numbers

Format Sentry and NL8 both accept any cart (cut) number from 1 to 9999. Enter the cut number into the NL8 "CopyID" field during order entry.

Log Reconciliation is not supported for Format sentry

Copy the Audit Log onto a floppy disc or to a folder on your LAN, and use the **[Convert-Log] [Reconcile Schedule-Log with Play-Log]** function in the **Log Editor** section of Natural Log, with the day's log loaded into the NL8 Log Editor. You will need to use the [Browse] button to point NL8 to the Play-Log. Natural Log will read the run times and print a discrepancy report.

Output & Input Log FileNames

Output (send) log file:

mmdd.EV	mm is month, dd is day
1102.EV	is Send Log for 11-02-95

Input (reconcile) Audit Log file:
Not supported

Format Sentry Commands

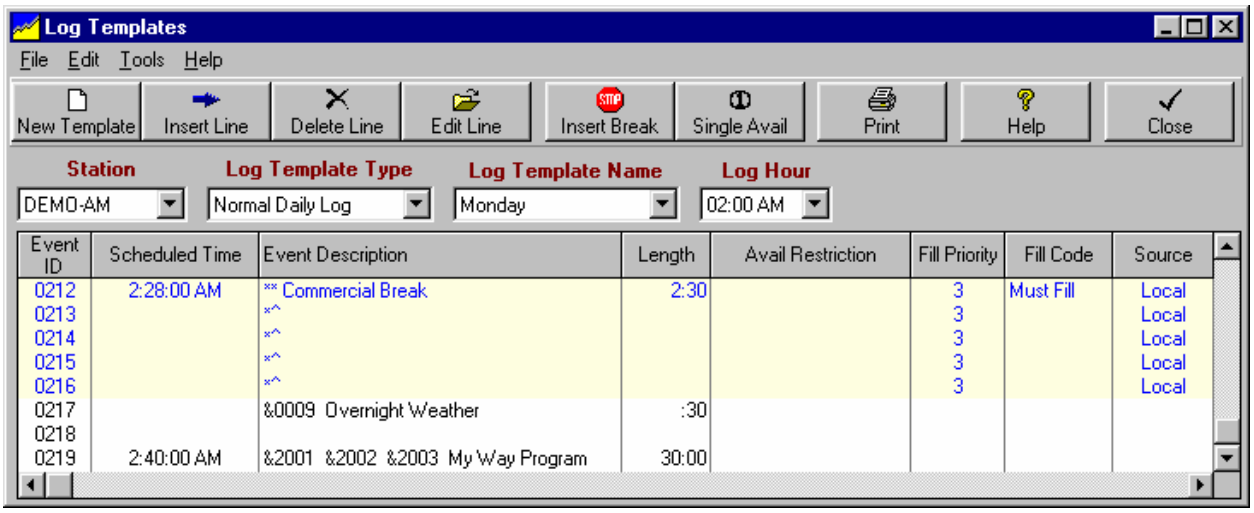
Cut numbers can be sent embedded in the NL8 log templates to send commands or to play audio cuts. On the Natural Log Template, simply enter **&** and then the 4-digit command cut number in the Event description. These are to be used for non-billable items only [such as liners, jingles, etc]. Enter any billable items through broadcast orders.

Play Non-Commercial AudioCut Example - Event 0217 shown below

Assume you need to run weather at a certain time each day. If weather is named **0009**, you could make the entry shown below at event 0217 below. This would play 2:30 of commercials followed by the weather. NL8 only needs **&0009** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

Command Sequence Example - Event 0219 shown below

Assume you may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 2001), then play a program (cut 2002), then play a closer (cut 2003). You could enter each item on a separate line, or you could make the entry shown below at event 0219 in the Natural Log Templates. Note that a single space is inserted between each command or cut and 'My Way Program' is an optional description.



10.43 Dalet™ Automation

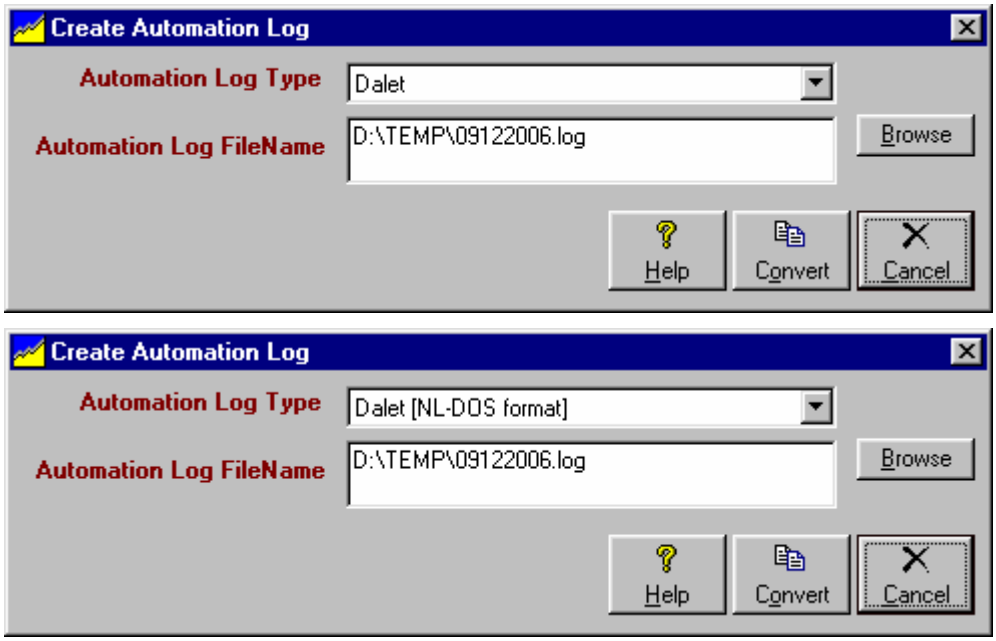
NOTE: Dalet has a user-defined import filter from the automation vendor. Natural Log 8 has 2 export filters for Dalet:

Dalet This can handle up to 20-charcter cut ID's. See Natural Log Generic Text Automation Log Format for a description of the "generic" automation log output file. Use the **Generic Text [NL8-Windows Format]** import filter in Dalet.

Dalet [NL-DOS format] This is limited to 8-character cut ID's. See Natural Log Generic Text Automation Log Format for a description of the "generic" automation log output file. Use the **Generic Text [NL-DOS format]** import filter in Dalet.

Use the file format information specified above to tell the Dalet importer where the data is located in our output file. With this information, you or the automation vendor should be able to configure the automation reader module to read and import our log file.

At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



Cut Numbers

The Natural Log **Dalet [NL-DOS format]** export filter can use any cut numbers/names up to 8 digits of numeric and alphanumeric characters.

The Natural Log **Dalet** export filter can use any cut numbers/names up to 20 digits of numeric and alphanumeric characters.

Log Reconciliation is Supported for Dalet

The Natural Log system does reconcile with Dalet's BCR log.

Output & Input Log FileNames

Output (send) log file

mmddyyyy.LOG	mm is month, dd is day, yyyy is year
11021995.LOG	is Send Log 11-02-95 for station1

Input (reconcile) log file

yyyymmdd.BCR	yyyy is year, mm is month, dd is day

Automation Commands

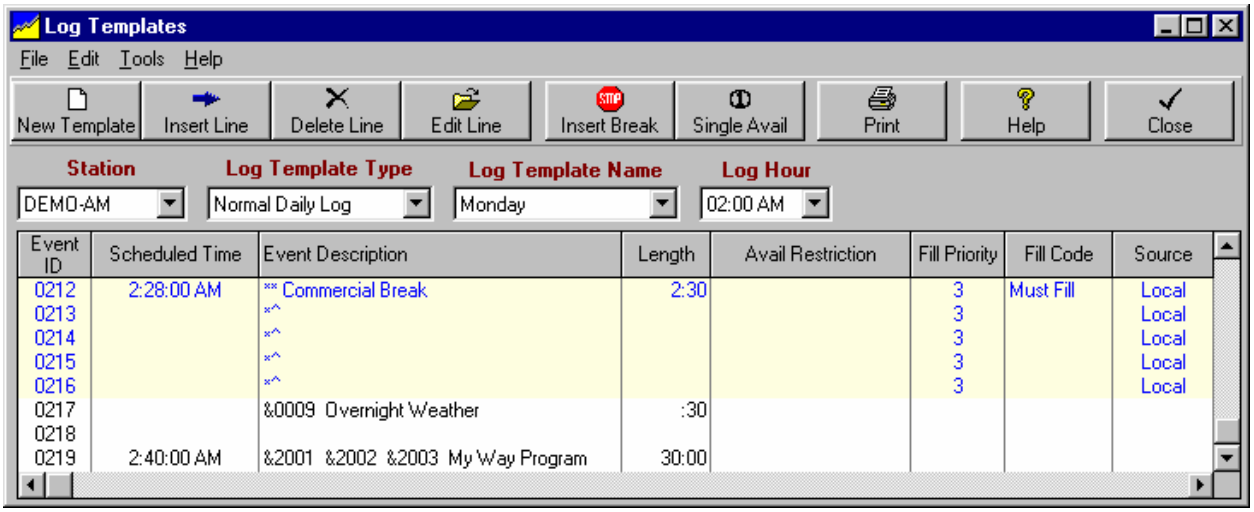
Natural Log can send commands to the automation (such as source switching) On the Natural Log Templates, simply enter **&** and then the command code letter/numbers in the Event description. NL8 will pick up the command or cut name to play by capturing all characters between **&** and the first space in the event description.

Play Non-Commercial AudioCut Example - Event 0217 shown below

Assume you need to run weather at a certain time each day. If weather is named **0009**, you could make the entry shown below at event 0217 below. This would play 2:30 of commercials followed by the weather. NL8 only needs **&0009** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

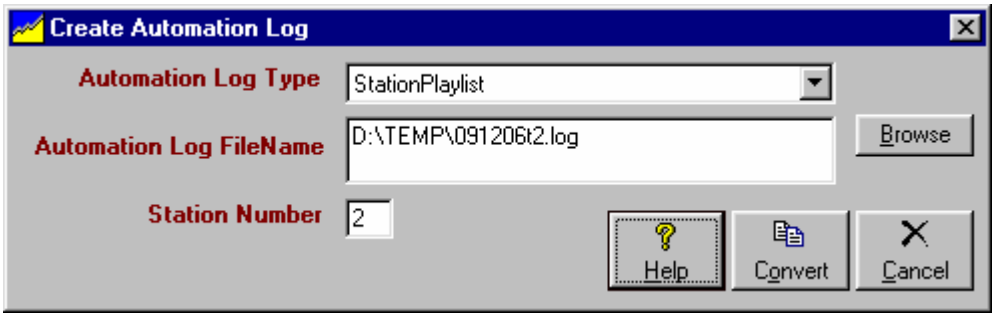
Command Sequence Example - Event 0219 shown below

Assume you may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 2001), then play a program (cut 2002), then play a closer (cut 2003). You could enter each item on a separate line, or you could make the entry shown below at event 0219 in the Natural Log Templates. Note that a single space is inserted between each command or cut and 'My Way Program' is an optional description.



10.44 StationPlaylist™ Automation

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



Cut Numbers

The Natural Log generic automation log export can use any cut numbers/names up to 20 digits of numeric and alphanumeric characters, however some automation systems are further limited.

Log Reconciliation is Supported for StationPlaylist

The Natural Log system can reconcile with the aired log as created by StationPlaylist. Contact StationPlaylist tech support for specifics on creating and locating this aired log file.

Important Warning: For reconciliation to work properly, the NL8 CopyID must appear in the 10th column of the aired log. To accomplish this:

1. StationPlaylist Studio must use the "default output" when creating the as-aired log, and;

2. StationPlaylist Spot Files need to have the NL8 CopyID entered in the CLIENT box of the StationPlaylist file tag. This can be done using the StationPlaylist Track Tool.

Copy the aired log file created by StationPlaylist onto a floppy disc or to a folder on your LAN, and use the **[Convert-Log] [Reconcile Schedule-Log with Play-Log]** function in the **Log Editor** section of Natural Log, with the day's log loaded into the NL8 Log Editor. You will need to use the [Browse] button to point NL8 to the aired log. Natural Log will read the run times and print a discrepancy report.

Output & Input Log FileNames

Output (send) log file

mmddyyT#.LOG	mm is month, dd is day, yy is year
110295T1.LOG	is Send Log Nov 02, 1995 for station1

Input (reconcile) log file

Sspot-yymmdd.csv	yy is year, mm is month, dd is day
Sspot-951102.csv	is aired log for Nov 02, 1995

10.44 StationPlaylist Automation (cont)

Automation Commands

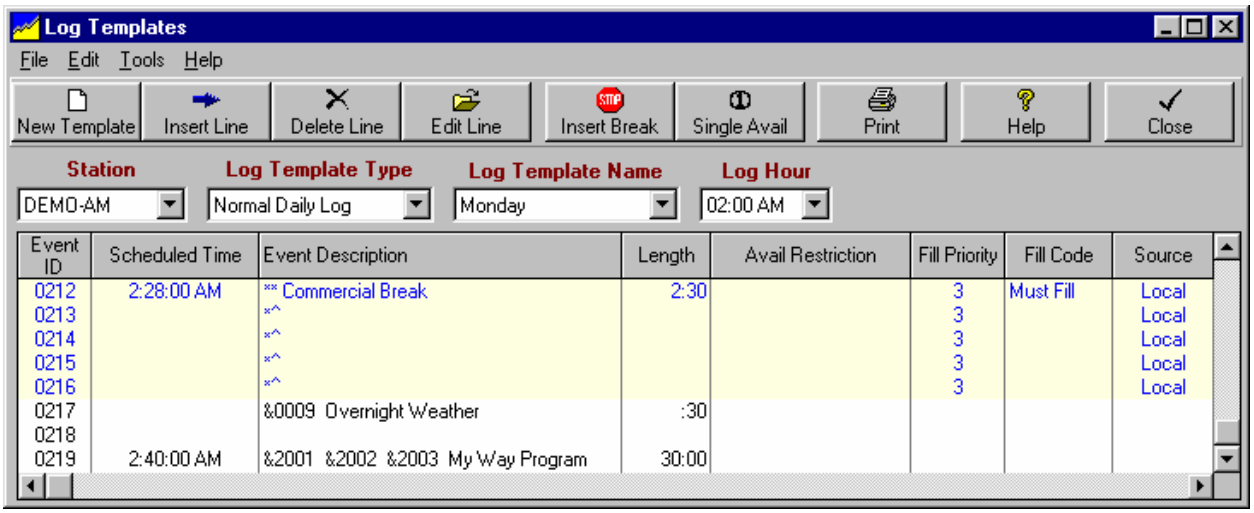
You can use Natural Log to hard-code audio cuts and commands into your Natural Log templates. On the Natural Log Templates, simply enter **&** and then the command code letter/numbers in the Event description. NL8 will pick up the command or cut name to play by capturing all characters between **&** and the first space in the event description. This is NOT to be used for any billable item, only use this for jingles, liners, etc. that never move on the log and are not billable.

Play Non-Commercial AudioCut Example - Event 0217 shown below

Assume you need to run weather at a certain time each day. If weather is named **0009**, you could make the entry shown below at event 0217 below. This would play 2:30 of commercials followed by the weather. NL8 only needs **&0009** and we inserted "Overnight Weather" only to make it easier to read. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.

Command Sequence Example - Event 0219 shown below

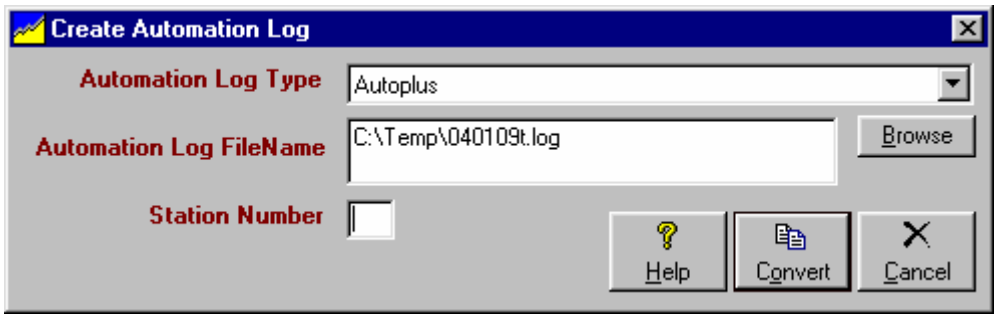
Assume you may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 2001), then play a program (cut 2002), then play a closer (cut 2003). You could enter each item on a separate line, or you could make the entry shown below at event 0219 in the Natural Log Templates. Note that a single space is inserted between each command or cut and 'My Way Program' is an optional description.



Event ID	Scheduled Time	Event Description	Length	Avail Restriction	Fill Priority	Fill Code	Source
0212	2:28:00 AM	** Commercial Break	2:30		3	Must Fill	Local
0213		»^			3		Local
0214		»^			3		Local
0215		»^			3		Local
0216		»^			3		Local
0217		&0009 Overnight Weather	:30				
0218							
0219	2:40:00 AM	&2001 &2002 &2003 My Way Program	30:00				

10.45 AutoPlus™ Automation

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



AutoPlus Cut Numbers

All you need to do is enter the cut number for the particular commercial spot into the "CopyID" field (on the NL8 Order Line entry screen), in the Natural Log system when entering the orders. Make sure the number in NL8 matches the number in the AutoPlus System.

Log Reconciliation is supported for AutoPlus

Copy the AutoPlus "audit" log file for the selected single date onto a floppy disc or to a folder on your LAN, and use the **[Convert-Log] [Reconcile Schedule-Log with Play-Log]** function in the **Log Editor** section of Natural Log, with the day's log loaded into the NL8 Log Editor. You will need to use the [Browse] button to point NL8 to the Play-Log. Natural Log will read the run times and print a discrepancy report.

Output & Input Log FileNames

Output (send) log file

mmddyrT#.LOG mm is month, dd is day, yr is year # is optional station #
110295T1.LOG is Send Log 11-02-95 for station1

Input (reconcile) log file

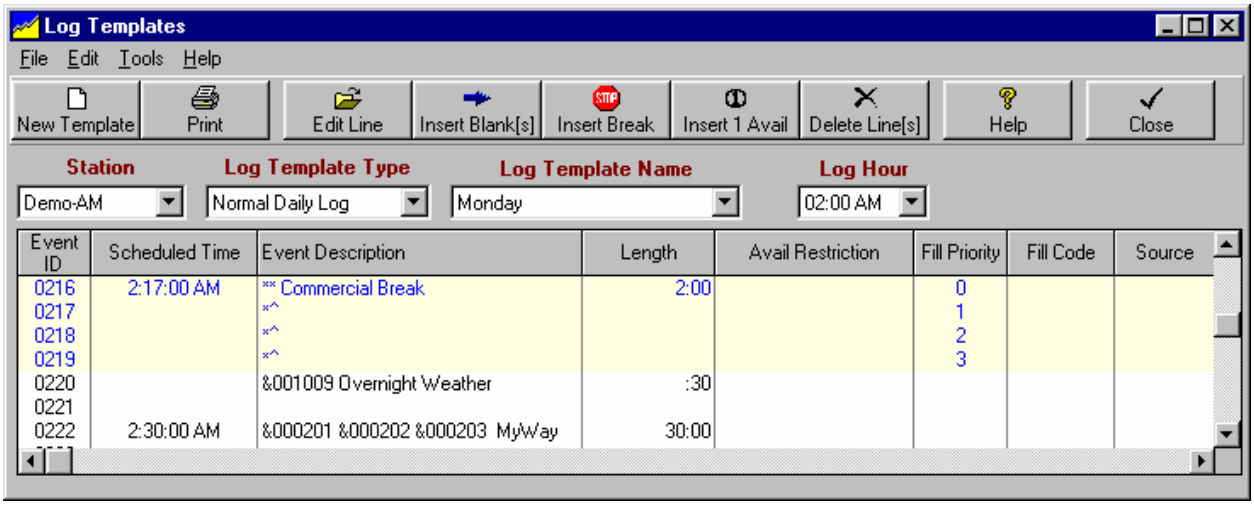
Commercialsddmmyycccc.CSV where ddmmyy is day / month / year & cccc is station name
Commercials081209CoolFM.LOG is Play Log for Dec 8 2009, for CoolFM

Continued on next page

10.45 AutoPlus™ Automation (cont)

Automation Commands

On the Natural Log Templates, simply enter **&** and then the command code letter/numbers in the Event description. NL8 will pick up the command or cut name to play by capturing all characters between **&** and the first space in the event description.



Play a Non-Commercial Audio Cut Example

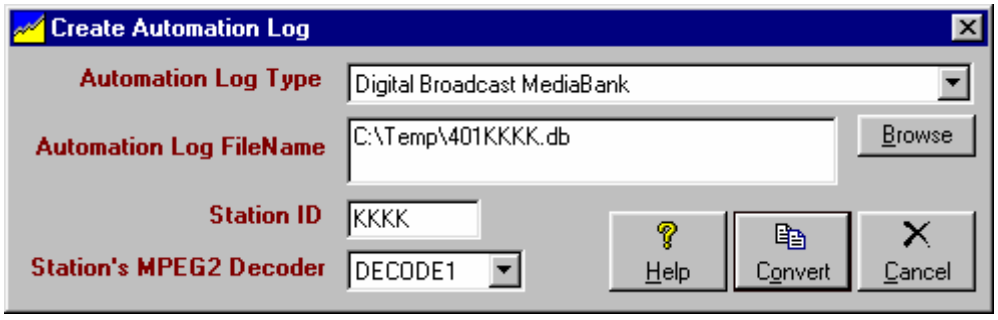
Assume you may need to run weather at a certain time each day. If your weather is named **001009**, you could make the entry shown above at event 0220 in the Natural Log Templates. This would play 2:30 of commercials followed by the weather. Note that the length of the commercial break was reduced by the length of the weather. Once again, the computer only needs the **001009** and we inserted "Overnight Weather"only to make it easier to read for humans. **Do not use this to schedule billable spots. Those are scheduled from** broadcast orders.

Command Sequence Example

You may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 000201), then play a program (cut 000202), then play a closer (cut 000203). You could enter each item on a separate line, or you could make the entry shown at event 0223 above in the Natural Log Templates. Note that a single space is inserted between each command or cut and 'MyWay is an optional description.

10.46 Digital Broadcast MediaBank™ Automation

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.



STATIONID is any 1-5 digit name or number to distinguish this log from other logs for other stations in your Natrual Log system. This is optional and may be left blank.

STATION' MPEG2 DECODER is the decoder assigned to this station in the MediaBank playback system to play spots scheduled by NL8. DECODE1 to DECODE 4.

MediaBank Cut Numbers

All you need to do is enter the cut number for the particular commercial spot into the "CopyID" field (on the NL8 Order Line entry screen), in the Natural Log system when entering the orders. Make sure the number in NL8 matches the number in the MediaBank System. We believe the MediaBank may be limited to 8 characters in their cut identifiers but NL will allow up to 20.

Log Reconciliation is supported for MediaBank

Output & Input Log FileNames

Output (send) log file

mddccccc.DB	m is month 1-9=Jan-Sep, A-C = Oct-Dec, dd is day ccccc is stationID or name
B02KKKK.DB	is Send Log Nov 02 1995 for station KKKK

Input (reconcile) log file

mddccccc.VER	m is month 1-9=Jan-Sep, A-C = Oct-Dec, dd is day ccccc is stationID or name
B02KKKK.VER	is Aired Log for Nov 02 1995 for station KKKK

10.46 MediaBank™ Automation (cont)

MediaBank Commercial Breaks and Source Switching

The MediaBank must be told to switch its MPEG2 decoder to air before each commercial break and off air at the end of each break. This is done as shown below on event lines 0216 and 0222. Note: the commercial break must ALWAYS start with a DUR or TOD event type. See you MediaBank help guide for further description of the event type. In NL8 these Switching commands are entered on the log templates as:

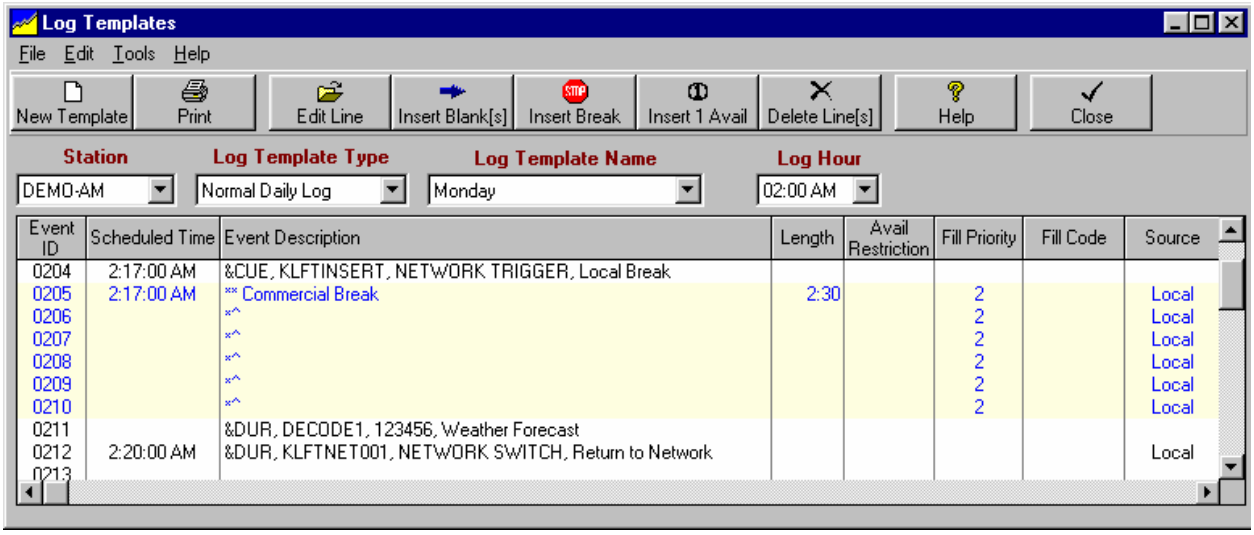
&XXX,YYYYYYY,#######, Description where

XXX	Event Type: DUR=segue, CUE=triggered, TOD=time of day, REM=remark
YYYYYYY	Device Designator [DECODE1-DECODE4 or INSERT or NETWORK commands]
#######	Cut number or switch event title
Description	Any text description of event

See examples below on lines 0204 and 0212 to start and end a commercial break.

Automation Commands

To send source switching and other automation commands to MediaBank in the Natural Log Templates, simply enter **&** and then a sequence of values separated by commas as described below.



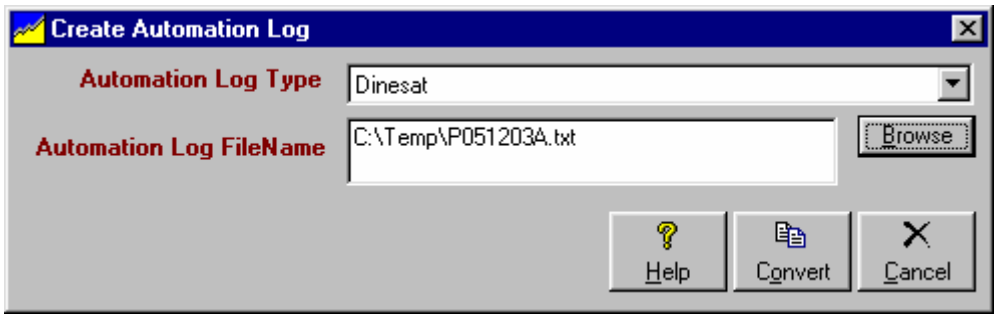
NOTE: KLFTINSERT and KLFTNET001 above should be replaced by your specific INSERT or NETWORK designations.

Play a Non-Commercial Audio Cut Example

Assume you may need to run weather at a certain time each day. If your weather is named 123456, you could make the entry shown above at event 0211 in the Natural Log Templates. This would play 2:30 of commercials followed by the weather. Note that the length of the commercial break was reduced by the length of the weather. Once again, the computer only needs the event type [DUR for autosegue], device [DECODE1], and the cut # 123456. We inserted description "Weather Forecast "only to make it easier to read for humans. **Do not use this to schedule billable spots. Those are scheduled from** broadcast orders.

10.47 Dinesat™ Automation

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log]** **[Automation Log]** to create the Automation Log.



Dinesat Cut Numbers

All you need to do is enter the cut number for the particular commercial spot into the "CopyID" field (on the NL8 Order Line entry screen), in the Natural Log system when entering the orders. Make sure the number in NL8 matches the number in the Dinesat System.

Log Reconciliation is not supported for Dinesat

Output & Input Log FileNames

Output (send) log file

P[DD][MM][YY][L].TXT	[DD] is day, [MM] is month, [YY] is year, [L] is A=commercials B=Music
P021195A.TXT	is commercial send Log 11-02-95

Continued on next page

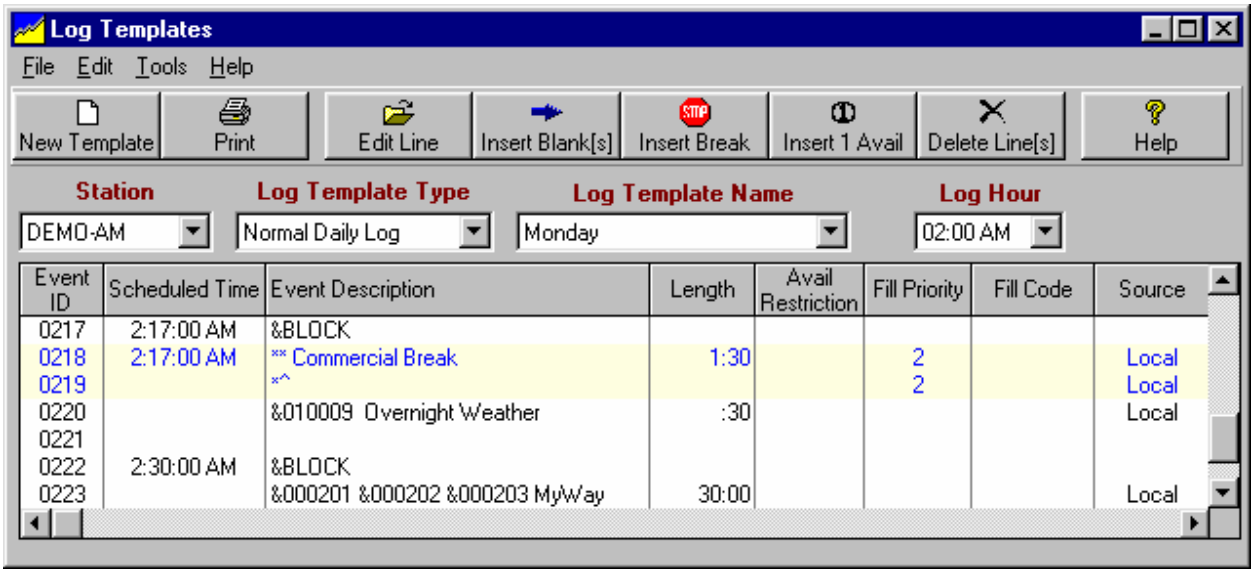
10.47 Dinesat™ Automation (cont)

Automation Commands

On the Natural Log Templates, simply enter **&** and then the command code letter/numbers in the Event description. NL8 will pick up the command or cut name to play by capturing all characters between **&** and the first space in the event description.

BLOCK markers

Dinesat loads audio items into "BLOCKS" which have to be defined in Natural Log templates as shown on events 0217 and 0222 below. Just insert the **&** followed by **BLOCK**. Be sure to enter the time to match the BLOCK time in Dinesat into which the following audio items should be loaded. Every Dinesat BLOCK must be defined by its start time in the scheduled time column.



Event ID	Scheduled Time	Event Description	Length	Avail Restriction	Fill Priority	Fill Code	Source
0217	2:17:00 AM	&BLOCK					
0218	2:17:00 AM	** Commercial Break	1:30		2		Local
0219		*^			2		Local
0220		&010009 Overnight Weather	:30				Local
0221							
0222	2:30:00 AM	&BLOCK					
0223		&000201 &000202 &000203 MyWay	30:00				Local

Play a Non-Commercial Audio Cut Example

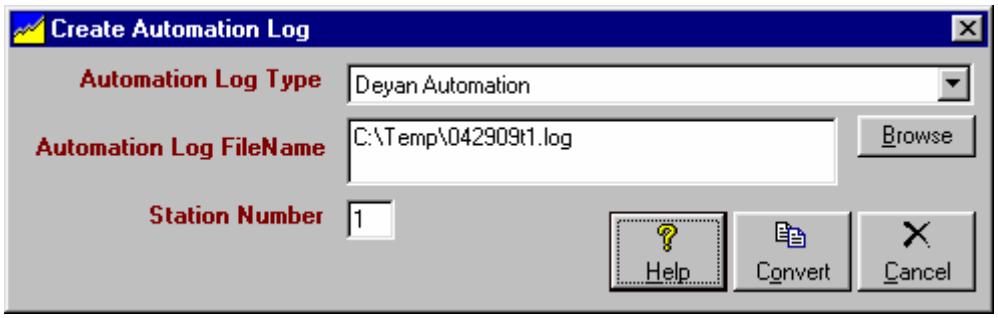
Assume you may need to run weather at a certain time each day. If your weather is named **001009**, you could make the entry shown above at event 0220 in the Natural Log Templates. This would play 1:30 of commercials followed by the weather. Note that the length of the commercial break on the ** Commercial Break event length does not include length of the hard-coded weather. Once again, the computer only needs the **001009** and we inserted "Overnight Weather"only to make it easier to read for humans. **Do not use this to schedule billable spots. Those are scheduled from** broadcast orders.

Command Sequence Example

You may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 000201), then play a program (cut 000202), then play a closer (cut 000203). You could enter each item on a separate line, or you could make the entry shown at event 0223 above in the Natural Log Templates. Note that a single space is inserted between each command or cut and 'MyWay is an optional description.

10.49 Deyan™ Automation

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log]** **[Automation Log]** to create the Automation Log.



STATIONID is an optional number to distinguish this log from other logs for other stations in your Natural Log system. This is optional and may be left blank.

NOTE: The Natural Log **Generic Text [NL8-Windows Format]** is used to send the scheduled log to Deyan. Deyan will need to configure their importer to read this text file as described in Section 10.19.

Cut Numbers

All you need to do is enter the cut number or cut name for the particular commercial spot into the "CopyID" field (on the NL8 Order Line entry screen), in the Natural Log system when entering the orders. Make sure the cut number or cut name in NL8 matches the number in the Deyan System.

Log Reconciliation is Supported for Deyan

You will need to obtain the "As Run" log from the Deyan System.

Output & Input Log FileNames

Output (send) log file

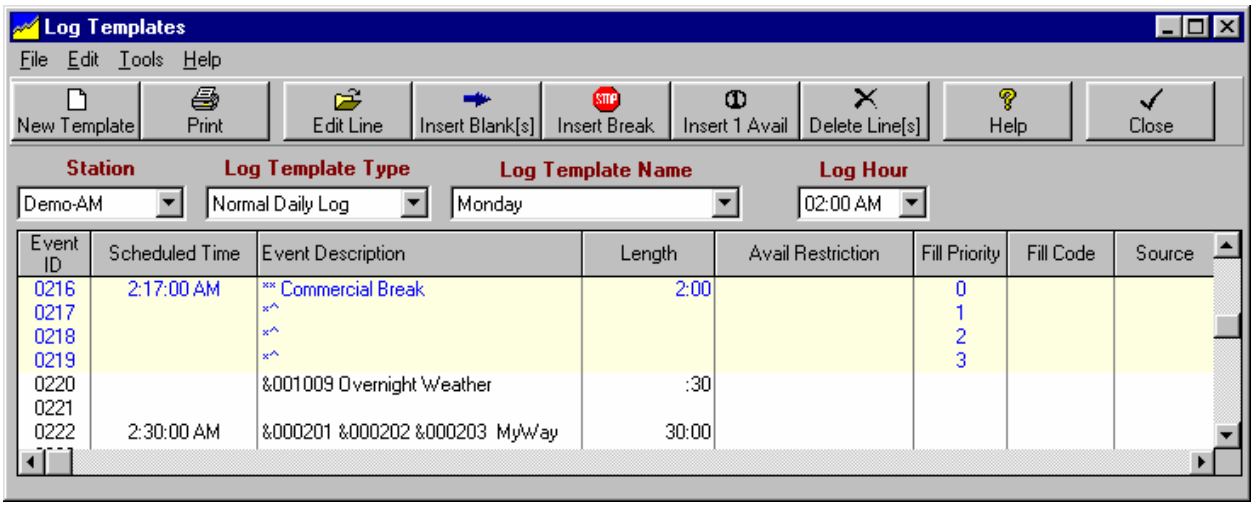
mmddyyT#.LOG	where mm=month, dd=day, yy=year, is optional station #
110295T1.LOG	is commercial send Log 11-02-95

Input (reconcile) log file

As Run mmmdd_yy.txt	where mmm=month, dd=day, yy=year
As Run Nov02_95	is aired log for Nov 02, 1995

Automation Commands

On the Natural Log Templates, simply enter **&** and then the command code letter/numbers in the Event description. NL8 will pick up the command or cut name to play by capturing all characters between **&** and the first space in the event description.



Play a Non-Commercial Video Cut Example

Assume you may need to run weather at a certain time each day. If your weather is named **001009**, you could make the entry shown above at event 0220 in the Natural Log Templates. This would play 2:30 of commercials followed by the weather. Note that the length of the commercial break was reduced by the length of the weather. Once again, the computer only needs the **001009** and we inserted "Overnight Weather"only to make it easier to read for humans. **Do not use this to schedule billable spots. Those are scheduled from** broadcast orders.

Command Sequence Example

You may need to run a sequence of cuts or commands at a certain time each day. Assume you want to play a program opener (cut 000201), then play a program (cut 000202), then play a closer (cut 000203). You could enter each item on a separate line, or you could make the entry shown at event 0223 above in the Natural Log Templates. Note that a single space is inserted between each command or cut and 'MyWay is an optional description.

10.49 BSI OpX™ Automation

Automation Logs are created in the NL8 Log Editor. At the Natural Log main screen, select **[Logs]**. Select an existing commercial log and then click **[Open]**. In the NL8 log Editor, click **[Convert-Log] [Automation Log]** to create the Automation Log.

Special Considerations

Unless running satellite programming, OpX uses the Music schedule to establish the stopset locations and log framework. The breaks are defined in the music log with an entry called "**stopset**" that appears in the "description 1" column. [See your Music scheduler help to determine how to place the "stopset" markers in the Music Log.]

Within the stopsets defined in your Music Log, Opx will insert the "commercials" from the Traffic log created by Natural Log. In the Traffic log, all stopsets must be preceded with a marker entered EXACTLY as **&[OPX_BREAK]]**. You may if desired put a Q-Code immediately after the last bracket to be applied to first item in the commercial break. Otherwise the Q-Code for the commercial break will be +.

As long as the number of traffic placeholders **[&OPX_BREAK]** in traffic does not exceed the number of commercial break placeholders in the music log for a given hour, the hour will merge correctly. Break times do not have to match between music & traffic for a given hour.

Configuring the OpX Import Filter

Before you an import the first NL8 log into OpX you must configure the OpX Log Import Filter in section 10.49.01.

OpX Cut Numbers

All you need to do is enter the OpX cut number for the particular commercial spot into the "CopyID" field in the Natural Log system when entering the order lines. Make sure the cut ID in NL8 system matches the number in OpX.

Log Reconciliation is supported for OpX

Natural Log reads the "RunLog" created by OpX, not the "reconcilation report". RunLogs is usually stored in the OpX machine in the **C:\Program Files\Broadcast Software International\oOpX\Runlogs** folder.

Then use NL8 **[Convert-Log] [Reconcile Schedule-Log with Play-Log]** function in the **Log Editor** section of Natural Log, with the day's log loaded into the NL8 Log Editor. You will need to use the [Browse] button to point NL8 to the RunLog. Natural Log will read the run times and print a discrepancy report. NL will remember where the RunLogs are stored.

Output & Input Log FileNames

Output (send) log file

mmddyyT#.LOG	mm is month, dd is day, yy is year station#, T means Traffic, #=station ID
100212T1.LOG	is Traffic Log for Oct 02, 2012 for station #1

Input (Reconcile) log file

yymmdd.log	mm is month, dd is day, yy is year
121002.log	is run log for Oct 02, 2012

[Note: If for some reason you do not have direct access to the folder containing the RunLogs you can also reconcile NL with the Automation "Spots" Report in OpX. Generate and save the report and then use NL to reconcile but select **OpX Spots Report** rather than **OpX RunLog** from the reconciliation file type drowdown box in NL8. The report is expected to be in the OpX PIPE delimited format, with all report fields entered sequentially as 1-8].

Details of using the NL8 to OpX Interface

Natural Log has many abilities to cause OpX to perform different activities. These are covered in detail in the following topics. You must configure the OpX import filter [in OpX] before attempting to import a log from NL8.

- Configure OpX Pipe-Delimited Import Filter — Section 10.49.01
- Sending commands from NL8 Templates to OpX — Section 10.49.02
- Load next day's OpX Log — Section 10.49.03
- Sending Non-Audio Commands from NL8 Broadcast Orders to OpX — Section 10.49.04
- OpX Q-Codes — Section 10.49.05

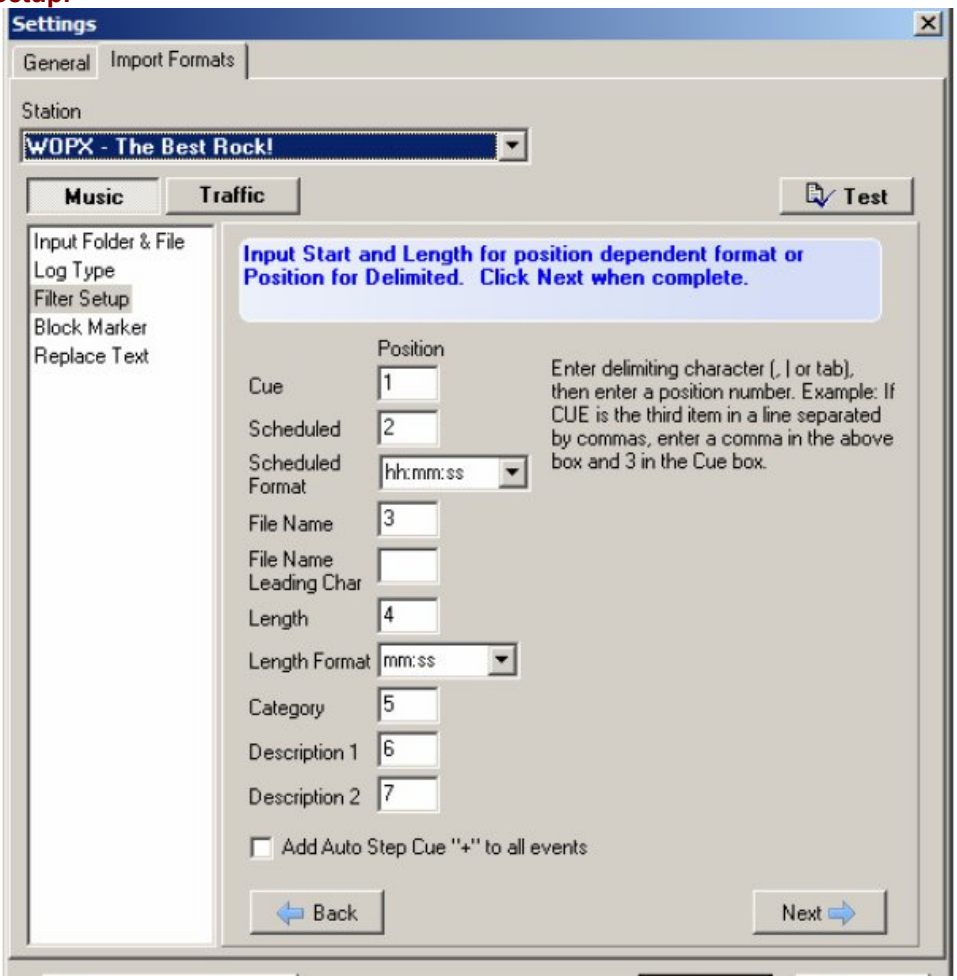
10.49.01 Configure Pipe-Delimited OpX Import Filter

To use the OpX import/merge function you need to use the OpX Edit, Settings function and select the appropriate station. On the **Import Formats tab** select the **Traffic button** and enter the following items:

Input Folder & File: Specify the folder from which the files are imported. This can be any folder you want to use but must match with the folder you select in Natural Log. You should also specify the File Template. NI8 uses **%mm%dd%yyT1.LOG**. [Note: the 1 after the T can be any alphanumeric value to designate the station. This will be same as that entered in Natural Log during log export for Station Number].

Log Type: Click **DELIMITED** and set the delimiter to **|**

Filter Setup:



Block Marker: Set **[OPX_BREAK]** as the Block Marker. In **Change to Comment** put **LIVE** and **Category In Field**. All other entries leave as default.

10.49.03 Sending Commands from NL8 Templates to OpX™

Background Timed Events which do not affect the log such as recording network audio, network switching, etc. can be pre-scheduled using OpX **Scheduled Events**. There should be little need to send timed event commands from Natural Log.

BSI provides technical support for programming their OpX product! Please call them (1-500-677-TECH) for specifics regarding the macro commands (such as network switching) to be executed by OpX. We are unable to provide assistance regarding the specific commands needed by OpX but once BSI provides the OpX command settings, we will help you translate the commands into text to be placed on the Natural Log format. The following samples and the explanation for each should show how any OpX Macro command can be entered in Natural Log.

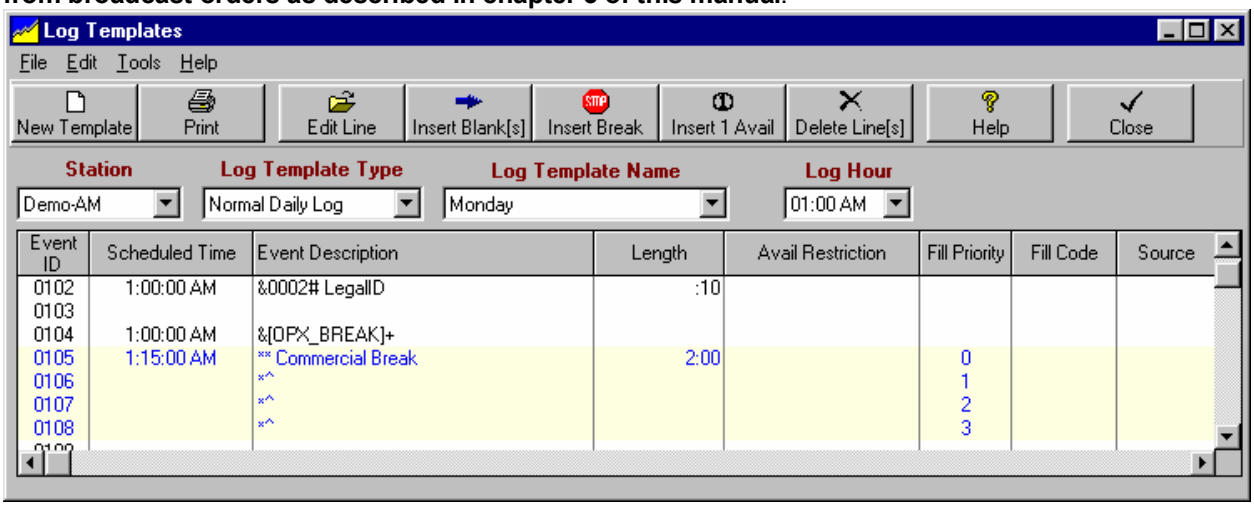
Telling OpX to play a specific "non-commercial" audio cut

Commercials should always be scheduled from broadcast orders as described in chapter 3. You may need to run other items such as weather, promos, jingles, etc. for which you don't want to enter a broadcast order. These can be placed directly in the **Event Description** column of the NL8 log templates as follows.

- Start with **&**
- Follow immediately [no spaces] with the name of the **audio cut** to play
- Optionally follow immediately by the **Q-Code** [+ is assumed if Q not entered]
- At least 1 **blank space**
- An optional **description**

Example 1 - Shown below at event 0102 A command to play a legal ID audio cut named 0002 with a Q of **#** [to designate "Time Next"] is shown on event 0101.

Example 2 - Shown below at event 0109 Assume you want to run weather at the end of a 3:00 Commercial Break. If your weather is named WX-1, you could make the entry shown on event 0109 below. The break starting at event 0103 plays 2:30 of commercials and segues into event 0109 which plays audio cut named WX-1. If there are no spots, the weather will play by itself. Note the length of the commercial break was reduced by the length of the weather. **Do not use this to schedule billable spots. Those are scheduled from broadcast orders as described in chapter 3 of this manual**.



10.49.03 Sending Commands from NL8 Templates to OpX™ (cont)

Tell OpX Automation to Execute Non-Audio OpX Categories

OpX uses several different "categories" for things that can be scheduled on its log. "Non-Audio" categories do things other than play an audio file. These can be placed directly in the **Event Description** column of the NL8 log templates as follows.

- Start with **&**
- Follow Immediately with the **[Category]** within brackets
- Follow immedtaiely by the **Q-Code** [+ is assumed if Q not entered]
- At least 1 **blank space**
- The name of the command or command parameters to be used by OpX.

To save space on the log event line, you may insert just the first character [within brackets] of certain "standard" categories. These "standard" categories with abbreviations in Natural Log are:

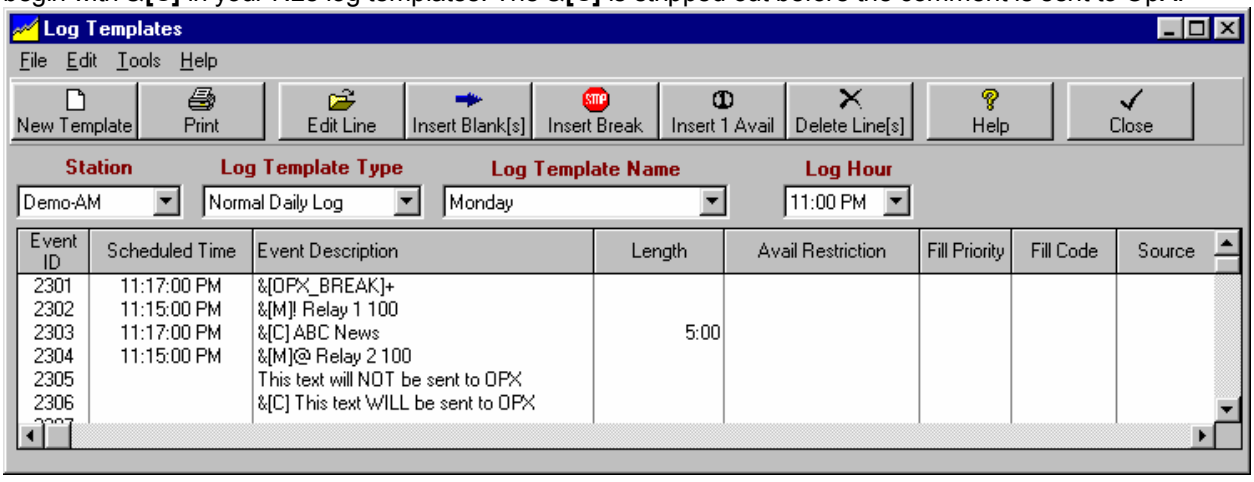
Natural Log Abbreviation	OpX Category	Meaning
&[R]	REC	Record (no longer used)
&[T]	TEXT	Display Text
&[M]	MACRO	Execute a Macro
&[LOG]	LOG	Load a Day's Log
&[A]	APP	Run an Application
&[L]	LIST	Execute a List
&[C]	COMMENT	Comment Line

Back-Time Macro Example - Event 2301 shown below

In the example below, event 2302 is a "Back Time" Macro [due to the ! Q-Code] to switch relay 1 on at 11:00 PM for 100 milliseconds. Event 2304 is a "Time Immediate" Macro [due to the @ Q-Code] to switch relay 2 on at 11:05 PM for 100 milliseconds. This might be used to join and leave a network. Your commands will be based on your actual OpX hardware setup, but all OpX macros and categories may be placed in an NL8 log template in this manner using the categories enclosed within brackets.

Comment Example - Event 2303 shown below

Event 2303 is a comment which is simply a line of text that will be displayed on the OpX log screen but is not executed by the automation. It is just skipped. **Note** that event 2305 below will not be sent to OpX as a comment since it does not start with **&[C]**. Comments you want to show be shown on-screen is OpX must begin with **&[C]** in your NL8 log templates. The **&[C]** is stripped out before the comment is sent to OpX.

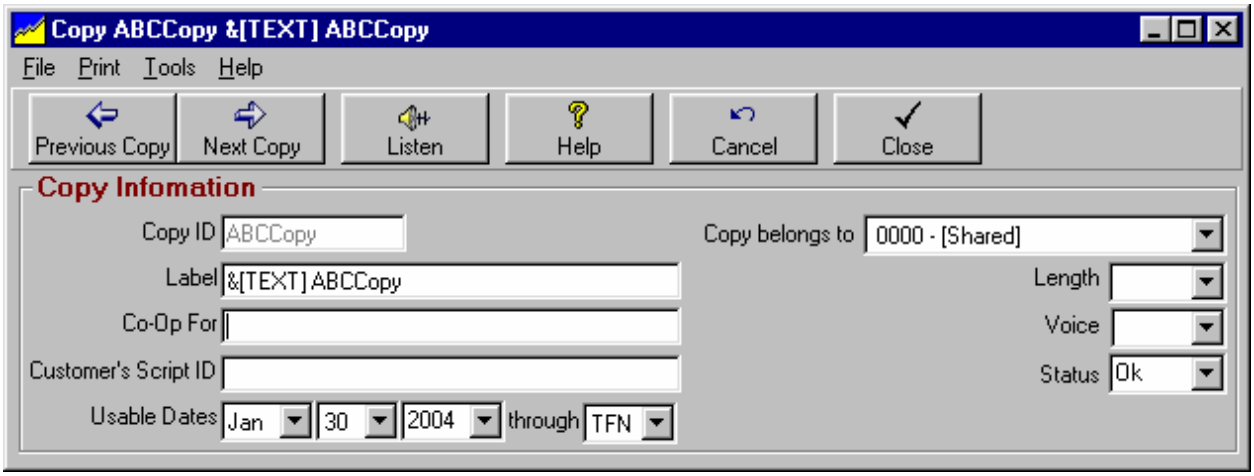


10.49.05 Sending Non-Audio Commands & Categories from NL8 Broadcast Orders to OpX

Normally NL8 sends **Audio** as the OpX Category for any item scheduled from a Broadcast Order. **[Note this default Category value can be changed on the NL8 Automation-Conversion screen]**. To send a Category on an individual logged item other than the default Category from a Broadcast Order, enter the Category using **&[Category]**, in the Label field of the Copy Manager, and schedule the CopyID to run on an order.

Live Copy Example

You want OpX to pop open a TEXT file so an announcer can read some live copy. Assume you use CopyID ABCCOPY. In Natural Log Copy Manager, you'd enter the label for Spot ABCDEF as **&[TEXT] ABCCOPY1**. Be sure to put the space between the &[TEXT] and the ABCCOPY1. Text file named ABCCOPY1 will be displayed by OpX whenever CopyID ABCCOPY is scheduled by a Natural Log broadcast Order.



10.49.06 BSI OpX™ Q-Codes

OpX automation uses codes [designated as Q in OpX] to determine how an event starts or is triggered. Natural Log will insert these in the Log file. The + is always sent as the Q unless you send another Q-Code as shown on the next page.

+ Segues after prior event or cut ends. This is the default value used by Natural Music

@ Plays at a specific time without waiting for previous event to end

Plays at a specific time but waits for a playing cut or event to end. This is useful to skip any unplayed items at the end of an hour and reposition the /OpX to begin a new hour at the appropriate log position to keep it on schedule.

! Wait for "BackTimed Start". This causes OpX to change the pitch of the playing audio to backtime to a specific event. See OpX Manual for more information.

$ Wait for "Manual Start" (Converted to Q=[Blank] when sent to /OpX)

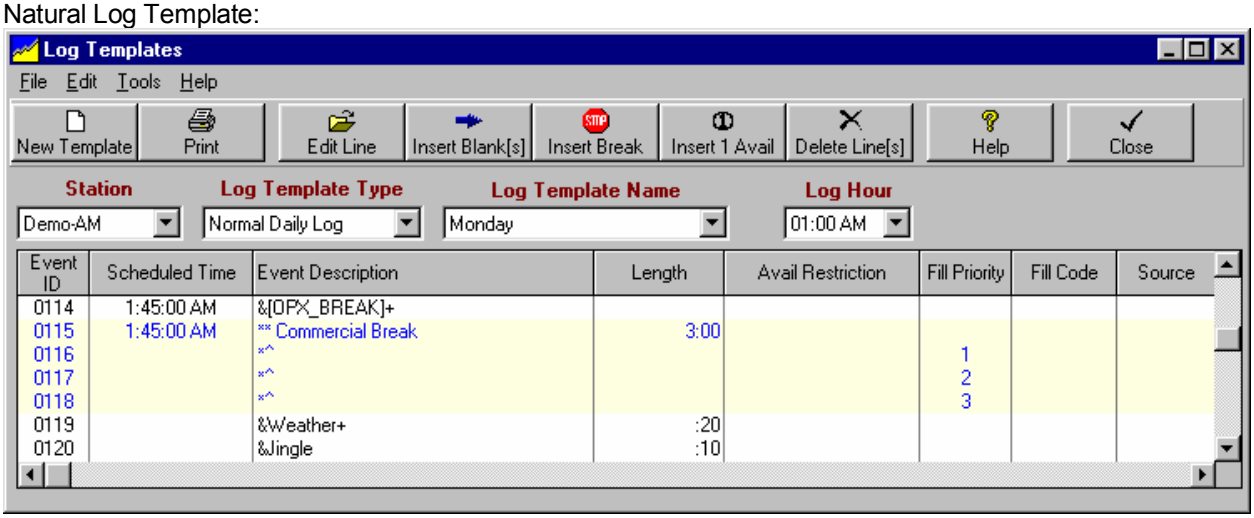
~ Used only with /OpX version 3 and later. Converted to N when sent to /OpX for non-sequential timed start of recording, switching, etc.

Automatic Segue Between Events

The easiest way to send a Q-Code (start code) is send no Q-code and let Natural Log assume that the start code is Segue **+**.

Automatic Segue Example

You want to play a cut named WEATHER then a cut named JINGLE1 after a Commercial Break. In the Natural Log Template:



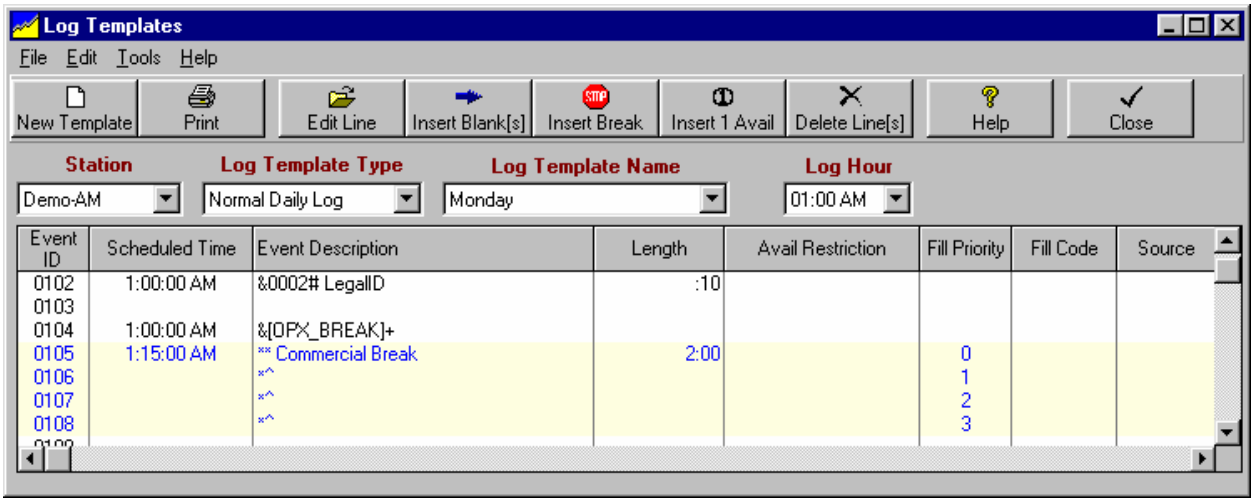
The **&WEATHER** on event 0119 tells OpX to automatically segue to start that event due to the + at the end of the name. The **&JINGLE1** shows an alternate way of accomplishing the same automatic segue with no Q-Code at all. With no Q-Code entered, NL always assumes automatic segue +.

Specifying Q-Codes on OpX Commands Sent From NL8

If you need to send one of the other Q-Codes on a text command sent from NL8 to OpX, [+ @ # $!], the easiest way is to simply put the code at the end of the command or cut to be played on the Natural Log Template. This will tell OpX how that event should be triggered.

Specifying the Q on a Text Command Line Example

You have a legal ID you always want to run at the top of the hour, without interrupting the currently running audio. In the Natural Log Templates:



- The **&** on event line 0102 indicates a command or cut to start at time 1:00:00 AM
- The # tells Natural Log to send the # as the Q [start code] to OpX for the cut named 0002.
- The # Q code causes OpX to move to that event at 1:00:00 AM, then after whatever is currently playing ends, it will play cut named 0002.
- It will then segue to the next logged item after event 0102.

10.49.06 BSI OpX™ Q-Codes (cont)

Commercial Break Q-Codes

Natural Log's default command to OpX is to automatically segue to begin commercial sets, so you do not need to send any Q-code if you simply want to segue from the preceding music or other audio to the spots in the commercial set.

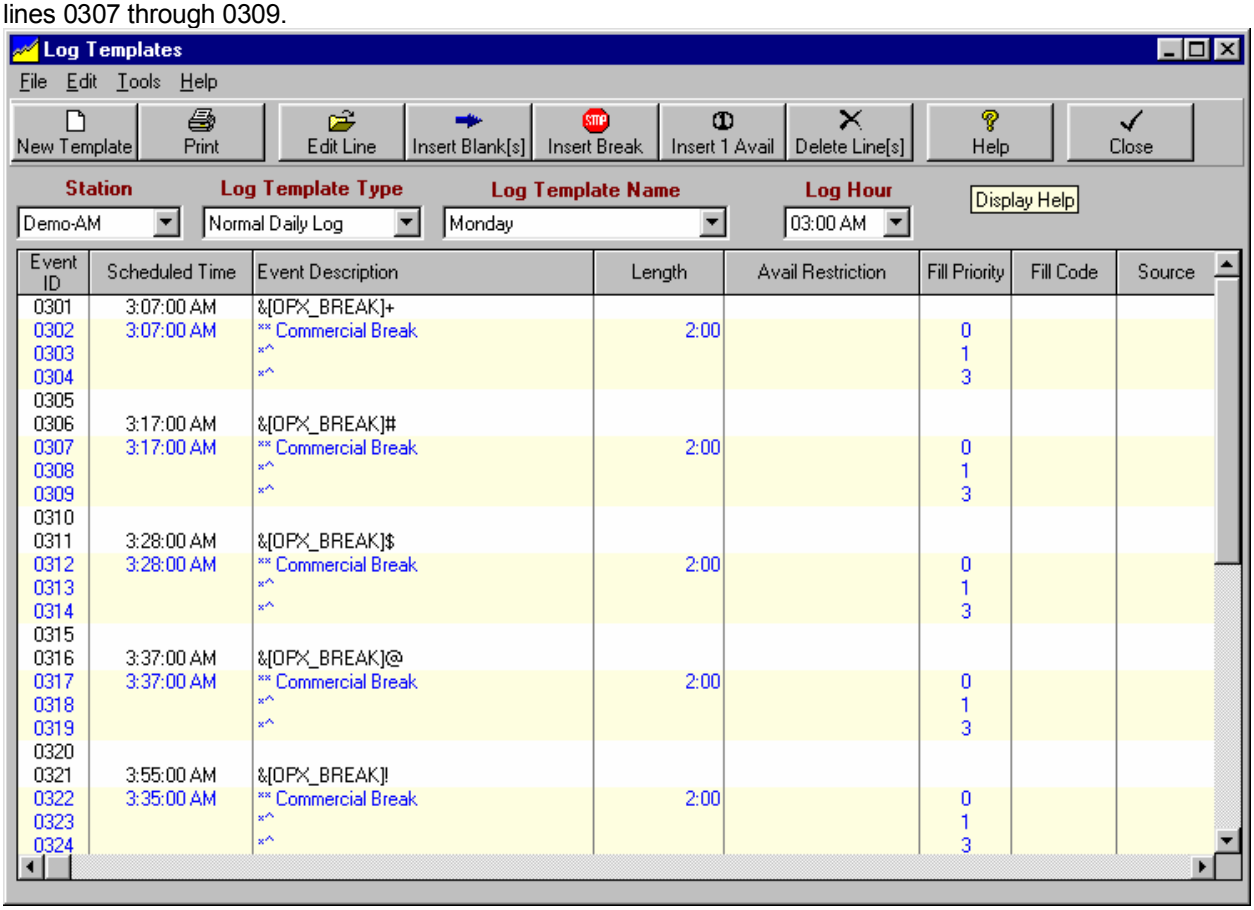
To control the start of Commercial Breaks which don't start by automatic segue, you need to send one of the Q-Codes @ # $! which is the OpX "start code". These Q-Codes sent immediately before a commercial set only apply to the first event in the commercial break which runs at the same time as the Q-Code time.

Automatic Segue Into Commercial Breaks Example - Event 0302 show below

You want the break at 03:07:00 AM to begin playing automatically after the previous event ends. In this example below automatic segue + is entered for clarity. If you neglect to put a Q-Code, + is always assumed. See the example at log template event 0301 below. The first item in the break that starts at event 0302 will have a Q of + and will sequentially play the spots in the break after the prior event ends.

SKIP-TO-TIME and "Start After Current event ends" Example - Event 0306 shown below

Assume you need to have a commercial break "about" 03:17:00 AM and you want OpX to skip any unplayed music or other cuts and cue up the commercial break so it is the next to start after 03:17:00 AM. See the example at log template event 0306 below. The &[OPX_BREAK]# tells the Natural Log to send the # as the Q [start code] to OpX for the next commercial break only. OpX will skip ahead at 03:28:00 AM and after whatever is currently playing ends will play the spots [if any] in the break that are inserted by Natural Log on lines 0307 through 0309.



Event ID	Scheduled Time	Event Description	Length	Avail Restriction	Fill Priority	Fill Code	Source
0301	3:07:00 AM	&[OPX_BREAK]+					
0302	3:07:00 AM	** Commercial Break	2:00		0		
0303		*^			1		
0304		*^			3		
0305							
0306	3:17:00 AM	&[OPX_BREAK]#					
0307	3:17:00 AM	** Commercial Break	2:00		0		
0308		*^			1		
0309		*^			3		
0310							
0311	3:28:00 AM	&[OPX_BREAK]$					
0312	3:28:00 AM	** Commercial Break	2:00		0		
0313		*^			1		
0314		*^			3		
0315							
0316	3:37:00 AM	&[OPX_BREAK]@					
0317	3:37:00 AM	** Commercial Break	2:00		0		
0318		*^			1		
0319		*^			3		
0320							
0321	3:55:00 AM	&[OPX_BREAK]!					
0322	3:35:00 AM	** Commercial Break	2:00		0		
0323		*^			1		
0324		*^			3		

Continued on next page.

Commercial Break Q-Codes(cont)

Commercial Break MANUAL Start Example - Event 0311 shown below

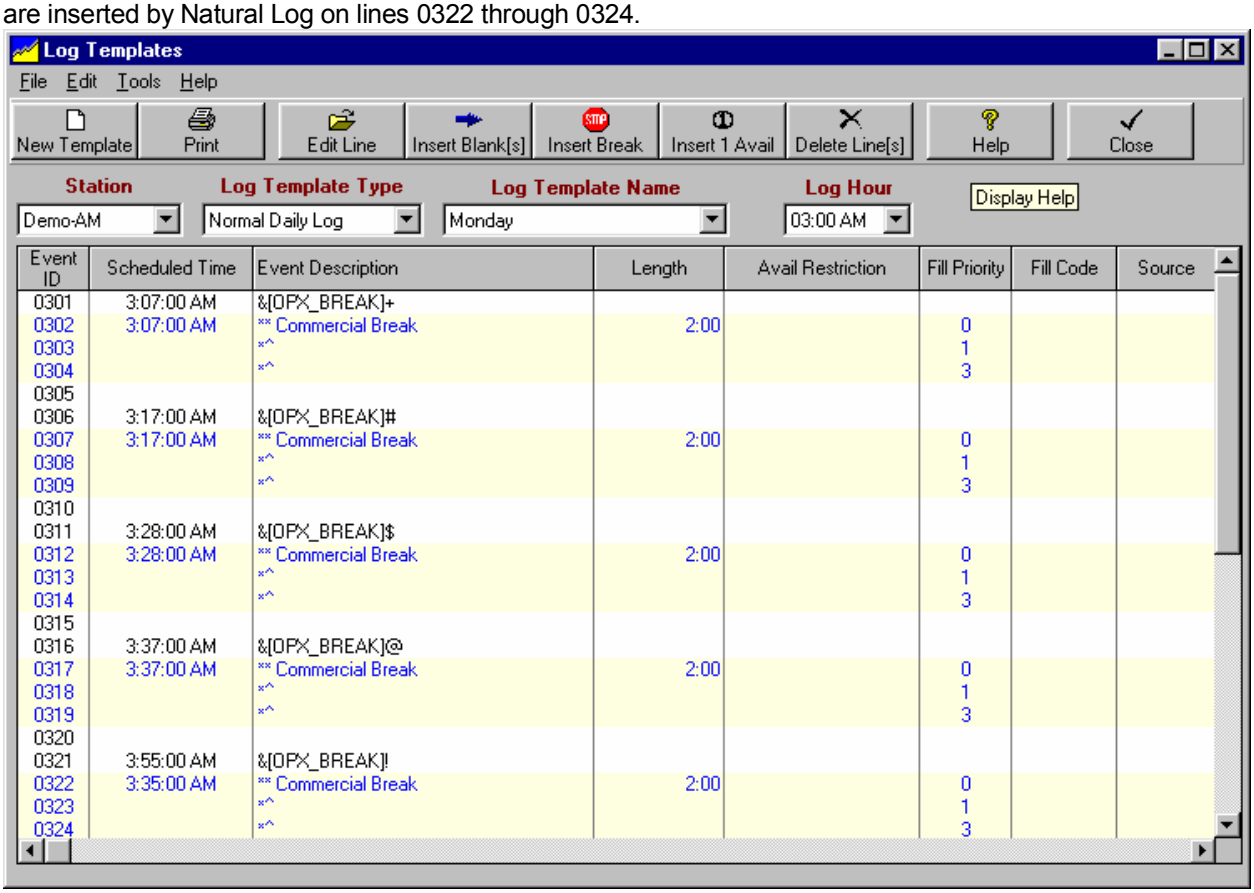
In "live assist mode" suppose you want a commercial break to run at 03:28:00 AM. However, you want OpX to pause to allow your live announcer to talk before the spots start. The &Q$ tells the NL8 to send a [blank] as the Q [start code] to OpX for the first spot in the break. This [Blank] Q-code tells OpX to finish playing the last event before the spots and wait for the announcer to issue a Manual Start. Then it will sequentially play all following break spots [if any] that are inserted by Natural Log on lines 0312 through 0314.

Commercial Break Start at EXACT Time Example - Event 0316 shown below

Suppose you need to have a commercial break run exactly at 03:37:00 AM. You want OpX to skip any unplayed music or other cuts, cut off the currently playing cut, and start the timed event. The Q@ tells the NL8 to send **@** as Q [start code] to OpX for the first spot in the break starting at event 0319. OpX will skip ahead at 03:37:00 AM and cut off whatever is currently playing. Then it will sequentially play all following break spots [if any] that are inserted by Natural Log on lines 0317 through 0319.

Commercial BackTime Start Example - Event 0321 shown below

Suppose you need to have a commercial break start exactly at 03:55:00 AM but you don't want to interrupt whatever is playing. You want to force OpX to skip any unplayed music or other cuts, and stretch or shrink the current playing item to make it end exactly at 03:55:00 AM. This would most often be done to join a network at an exact time without cutting off something in the middle. The &Q! tells NL8 to send the **!** as Q [start code] to OpX for the first spot in the break [if any]. OpX will shrink or stretch whatever is currently playing so that it ends exactly at 03:55:00. Then it will sequentially play all following break spots [if any] that are inserted by Natural Log on lines 0322 through 0324.



Event ID	Scheduled Time	Event Description	Length	Avail Restriction	Fill Priority	Fill Code	Source
0301	3:07:00 AM	&[OPX_BREAK]+					
0302	3:07:00 AM	** Commercial Break	2:00		0		
0303		*^			1		
0304		*^			3		
0305							
0306	3:17:00 AM	&[OPX_BREAK]#					
0307	3:17:00 AM	** Commercial Break	2:00		0		
0308		*^			1		
0309		*^			3		
0310							
0311	3:28:00 AM	&[OPX_BREAK]$					
0312	3:28:00 AM	** Commercial Break	2:00		0		
0313		*^			1		
0314		*^			3		
0315							
0316	3:37:00 AM	&[OPX_BREAK]@					
0317	3:37:00 AM	** Commercial Break	2:00		0		
0318		*^			1		
0319		*^			3		
0320							
0321	3:55:00 AM	&[OPX_BREAK]!					
0322	3:35:00 AM	** Commercial Break	2:00		0		
0323		*^			1		
0324		*^			3		

Continued on next page

10.49.06 BSI OpX™ Q-Codes (cont)

Commercial Break Q-Codes (cont)

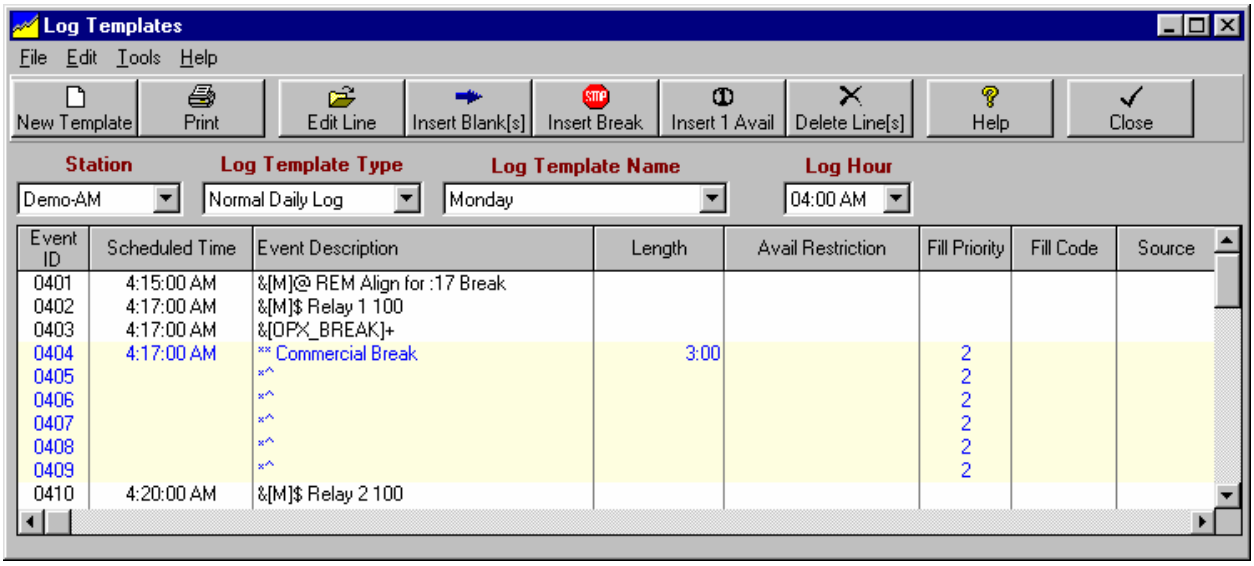
Commercial Break Satellite Trigger [Contact Closure] Start Example - Event 0402 shown below

In "Satellite mode", contact closures from the network start your commercial breaks. There must be a "break marker" for each commercial break even if empty so the OpX stays "in sync" with the network. With no break marker for an empty spot break, OpX would be positioned at the wrong break when the next contact closure comes. The example assumes you are using a Satellite Relay switcher. If running Network audio through the AUX input on your audio card, contact BSI for the appropriate Macro commands to use.

&[M]$ sends [Blank] as the Q [start code] to OpX so it will stop and wait to receive the network contact closure before executing the command to close RELAY 1 for 100 microseconds (Network OFF). If no spots are scheduled, the RELAY 2 100 (Network ON) is immediately executed and network audio is NOT interrupted. If there are spots, they will be auto-started, and then RELAY 2 100 (Network ON) is executed after the last spot due to the + Q code on line 0410. Either way, OpX then goes to the next commercial break and waits for the next network contact closure.

Optional Break Alignment Start Example - Event 0401 shown below

In "Satellite mode", contact closures from the network start your commercial breaks. Some users want to be sure OpX is positioned at the correct break when the contact closure comes. The optional entry shown on event 0401 below will cause OpX to align at event 0402 at 4:15:00 AM and wait for the contact closure for the following break. This forces OpX to play the correct break even if an earlier closure was missed for some reason.



This is an example only, your Relay numbers will be different or you may use the built-in audio mixer on your audio board, in which case you will use MIXVOL macros to turn the network up and down instead of the RELAY macros in this example.